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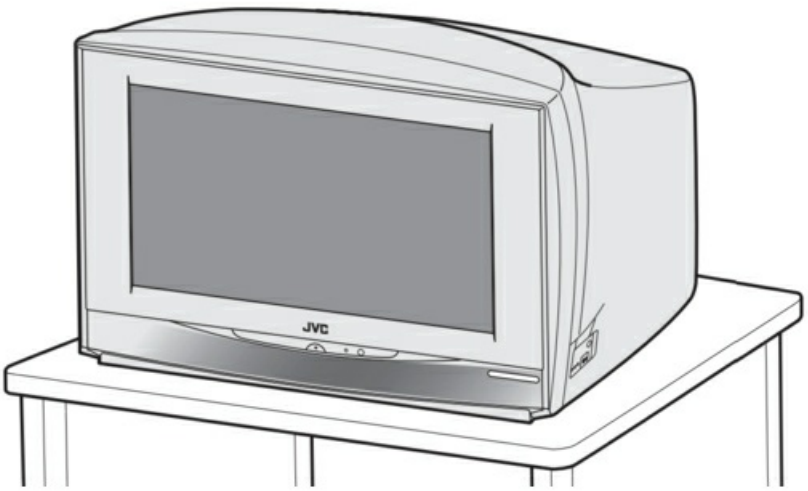
JVC HV-28D40 TV INSTRUCTIONS MANUAL



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JVC

D.I.S.T.
Digital Image Scaling Technology

InteriArt

HV-32D40BK
HV-28D40BK

T-V LINK

Integrated Digital Colour Television INSTRUCTIONS

DVB
Digital Video Broadcasting

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996) Number: 3081

■ Warning

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If a new mains plug has to be fitted, then follow the instruction given below:

Important

Do not make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

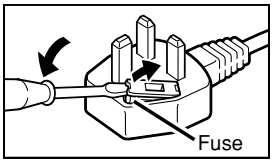
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse, use only a correctly rated approved type and always re-fit the fuse cover.

■ If in doubt — consult a competent electrician.

How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.



■ Guidelines for safe operation

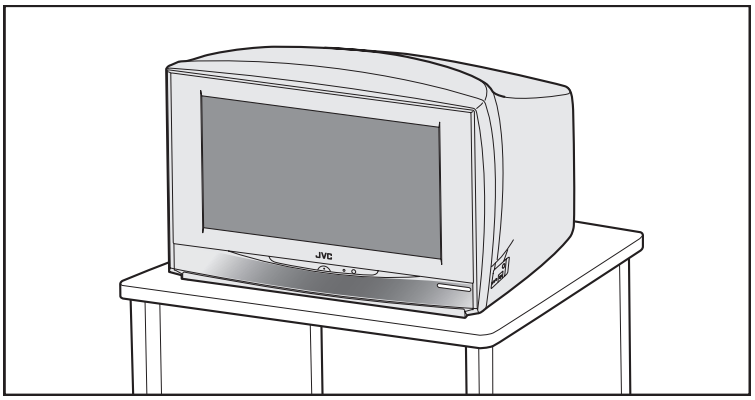
This equipment has been designed and manufactured to comply with international safety standards. However, as with any electrical appliance, care must be taken to ensure optimal results and operational safety.

- Before attempting to use this equipment, read the operating instructions thoroughly.
- Ensure that all electrical connections (including the mains plug, extension leads, etc.) have been made in accordance with the manufacturer's instructions.
- If ever in doubt about the installation, operation or safety of this equipment, consult your dealer.
- Handle all glass panels or covers with care.
- Never operate this equipment if it appears damaged or operates abnormally. Turn the power off, disconnect the main power plug and consult your dealer.
- Never remove any affixed panels or covers. Doing so may result in electrical shock.
- Never leave this equipment operating unattended unless otherwise specifically stated that it is designed to do so or in standby mode. Only use the designated power switch to turn off the power and ensure that all potential users are instructed how to do so. Make special arrangements for infirm or handicapped persons.
- Never watch TV while operating a motor vehicle. It is illegal to watch TV while driving.
- Never listen to headphones at high volume. Doing so may damage your hearing.
- Never obstruct the ventilation of this equipment. Doing so may cause overheating and result in a malfunction or damage.
- Never use makeshift stands or attempt to affix legs with wood screws. When using a manufacturer's approved stand or legs, use only the fixtures provided and follow the installation instructions.
- Never allow this equipment to be exposed to rain or moisture.
- Never allow anyone, especially children, to insert anything into an opening in the case. Doing so may result in a fatal electrical shock.
- Never guess or take chances with electrical equipment of any kind. It is better to be safe than sorry.

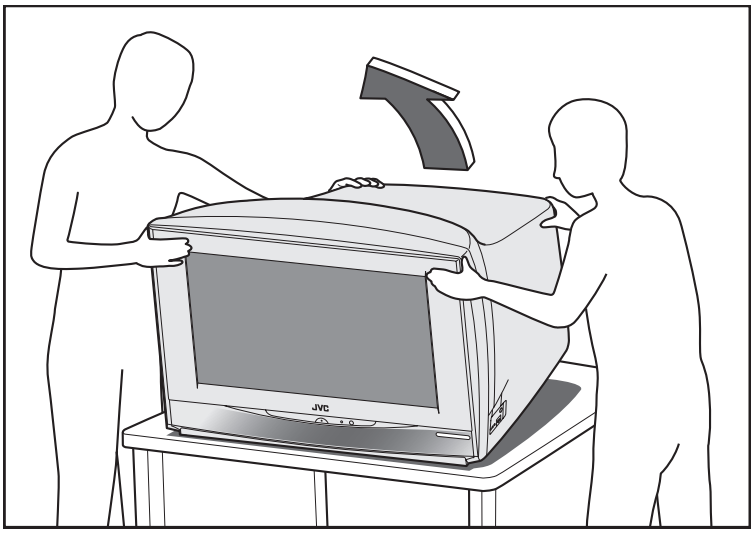
How to move the TV

When moving the TV, make sure that it is held by two people as shown in the illustration. Be careful not to trap your hands when putting the TV down.

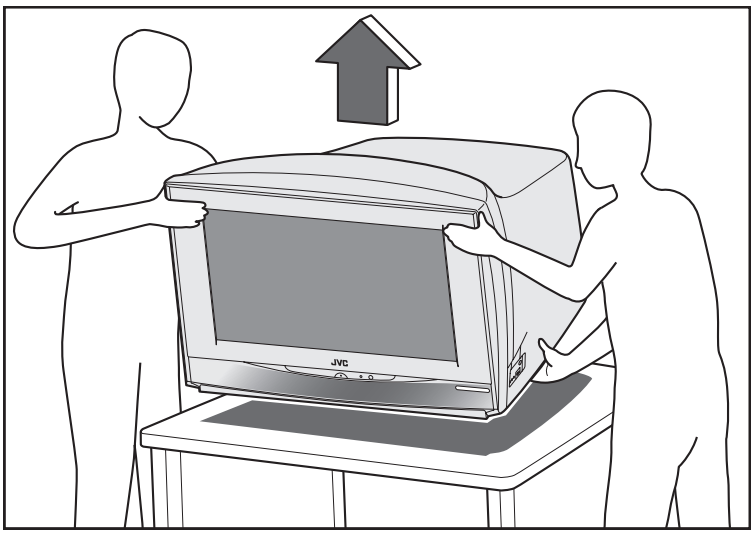
1



2



3



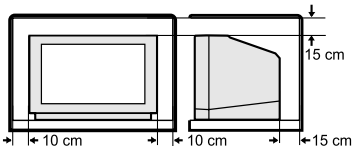
Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
- The main power button on the TV does not fully isolate the TV from the mains supply. If you are not going to use this TV for a long period of time, be sure to disconnect the mains plug from the mains outlet.

Avoid improper installation and never put the unit where good ventilation is not possible.
When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture.
Adhere to the minimum distance guidelines shown for safe operation.



Failure to heed the following precautions may result in damage to the TV or remote control.

DO NOT block the TV's ventilation openings or holes.
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

DO NOT place anything on top of the TV.
(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

DO NOT allow objects or liquid into the cabinet openings.
(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

DO NOT place any naked flame sources, such as lighted candles, on the TV.

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

D.I.S.T. demonstration

To start the D.I.S.T. demonstration:
Press the **MENU** button to display the menu bar. Then press the yellow button.
A picture split in two (D.I.S.T. turned on and D.I.S.T. turned off) will appear on the screen.

To quit the D.I.S.T. demonstration:
Press the yellow button, **TV/DTV** button, **P** ∨/∧ buttons or any of the number buttons.

NOTE:

Due to static electricity, the TV may be covered with dust.
If this happens, wipe the TV with a soft cloth being careful not to scratch the TV.

Digital terrestrial broadcasting (DVB-T) service area

Although this TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting, depending on the area in which you live, you may not be able to receive Digital terrestrial broadcasting (DVB-T).

For details of the Digital terrestrial broadcasting (DVB-T) service area, refer to the FREEVIEW website etc.

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Setting up your TV

Caution

- Turn off all the equipment including the TV before connecting anything.

Connecting the aerial

- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

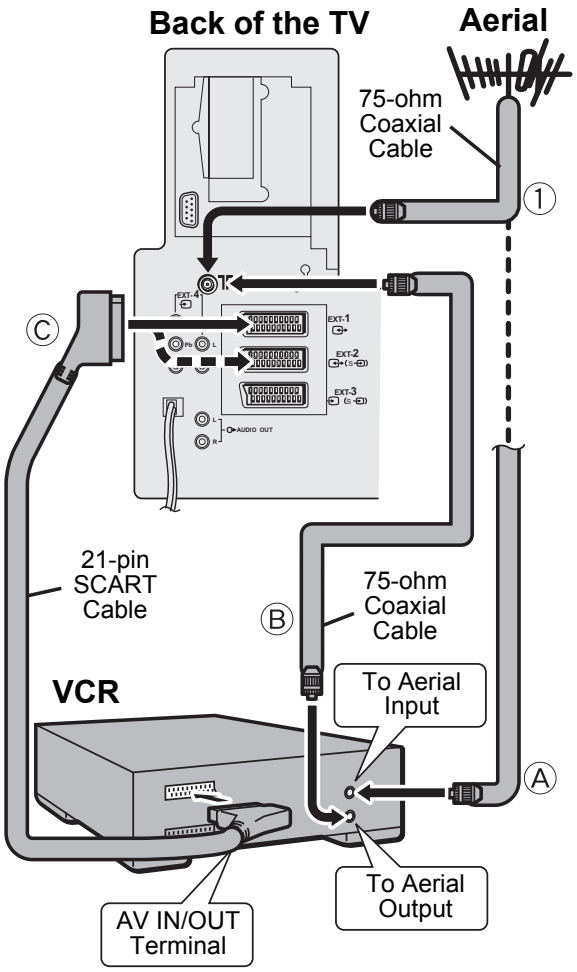
■ If you connect via a device with an antenna terminal such as a VCR, follow Ⓐ → Ⓑ → Ⓒ in the diagram opposite.

■ If you connect the antenna directly to the TV, follow ①.

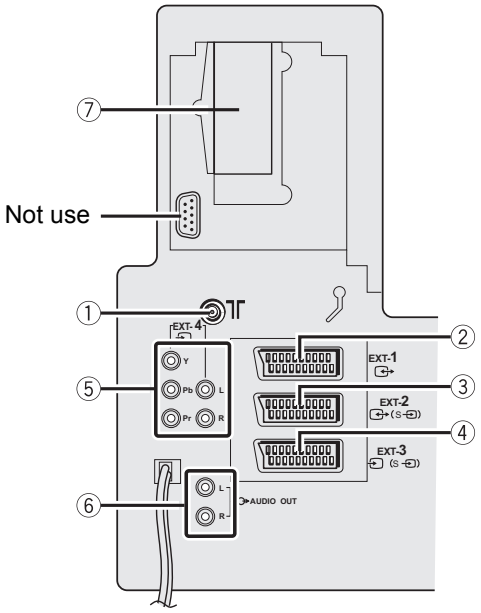
To use the T-V LINK functions, you must have a T-V LINK compatible VCR connected by a SCART cable Ⓒ to the EXT-2 terminal on the TV. For details about T-V LINK functions, see "T-V LINK functions" on page 11.

- To connect more equipment, please see "Connecting external equipment" on page 53.
- To connect additional audio equipment, see "Connecting speakers/amplifier" on page 55.
- If you connect a decoder to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see "DECODER (EXT-2)" on page 41. Otherwise, you will not be able to watch scrambled channels.
- When receiving Digital terrestrial broadcasting (DVB-T), reception can suddenly be lost if the signal becomes weak. Use a correctly installed high-performance antenna.
- When connecting via a device with an antenna terminal such as a VCR, depending on the connection method, the signal may be weakened. If this happens, use a booster to increase the signal strength.
- In areas with a lot of radio communication such as near ports or airports, noise may be introduced into the picture or sound. In such cases, reception may be improved by using a high-performance antenna.
- Read the instruction manual of the devices which you connect to the TV.

For example



■ Rear Panel



① Aerial socket (page 7)
② EXT-1 terminal (pages 7, 42, 53)
③ EXT-2 terminal (pages 7, 11, 42, 53)
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⑥ AUDIO OUT terminal (page 55)
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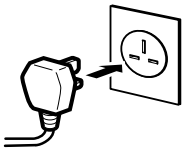
Connecting the power cord to the AC outlet

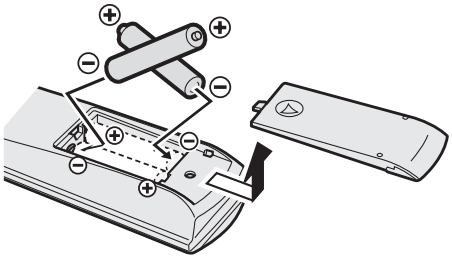
Caution

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.



Putting the batteries into the remote control

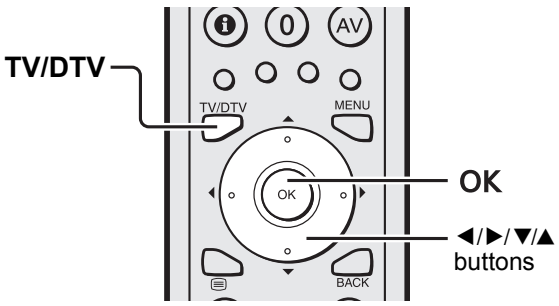
Use two AA/R6 dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on how much you use the remote control.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as you need to.
- If the remote control does not work properly, replace the batteries.

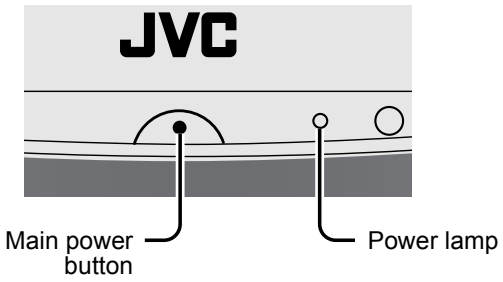
Initial settings

When the TV is first turned on, it goes into the initial settings mode, and you will see the JVC logo. Follow the instructions on the screen display to make the initial settings.



1 Press the main power button on the TV

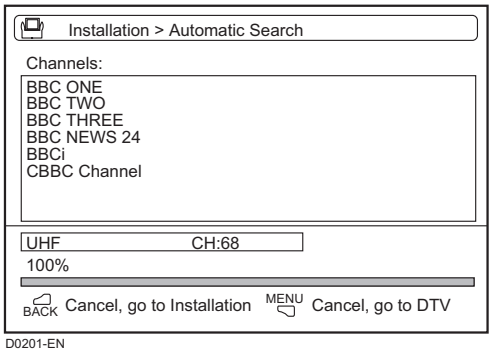
The power lamp lights green and the JVC logo appears.



- If the JVC logo does not appear this is because your TV has already been turned on for the first time:
  Perform the initial settings with "Installation" (see page 52) in the DTV menu and "AUTO PROGRAM (Analogue)" (see page 36) in the SET UP menu.
- To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function which follows.

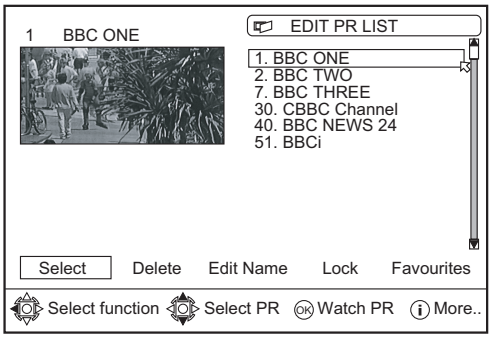
2 Press the OK button

The Digital terrestrial broadcasting (DVB-T) Automatic Search starts.
The Digital terrestrial broadcasting (DVB-T) channels which can be received are automatically registered.



D0201-EN

When the Automatic Search has finished, the EDIT PR LIST menu appears

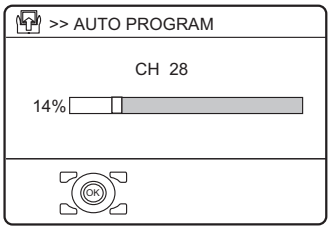


D0202-EN

- If you want to, you can now edit the programme numbers (PR) using the EDIT PR LIST function. For details, see "Edit PR List" on page 49.
- If you do not want to edit programme numbers (PR), go to the next step.

3 Press the MENU button

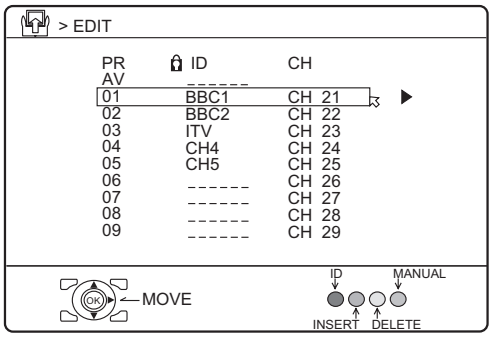
The EDIT PR LIST menu disappears and the Analogue terrestrial broadcasting AUTO PROGRAM starts.
The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).



D0004-EN

- To cancel the AUTO PROGRAM function:
  Press the **TV/DTV** button.

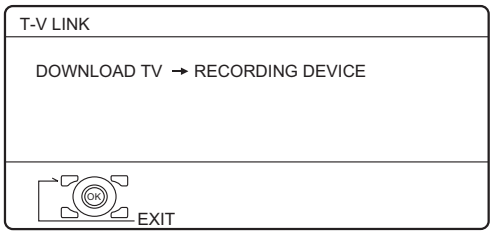
After the AUTO PROGRAM has finished, the EDIT menu appears



D0038-EK

- If you want to, you can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see "EDIT/MANUAL (Analogue)" on page 36.
- If you do not want to edit programme numbers (PR), go to the next step.

4 Press the OK button to display the T-V LINK menu



D0005-EN

If you do not have a T-V LINK compatible VCR connected:

Press the **TV/DTV** button to exit the T-V LINK menu.
The T-V LINK menu disappears.

If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

Follow the operating procedure "Downloading the data to VCR" on page 11 to transmit the Programme number (PR) data.

Now, the initial settings are complete, and you can watch the TV

- The Analogue terrestrial broadcasting channels BBC1, BBC2, ITV, Channel 4 and Channel 5 are automatically set to the programme numbers PR1 to PR5. If the TV doesn't receive one of these TV channels, that programme number (PR) will not be set. Programme number PR6 is not normally set.
- If a TV channel you want to view is not set to a programme number (PR), you can set it manually. To set an Analogue terrestrial broadcasting channel, see "EDIT/MANUAL (Analogue)" on page 36. To set a Digital terrestrial broadcasting (DVB-T) channel, see "Manual Search:" on page 52.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the MANUAL function.
- In some areas you may get TV reception from more than one transmitter, for example different ITV regions. In this case each TV channel could be set twice. If this happens, the first set of channels will have the stronger signal. If you want to delete the second set of channels, you will have to do it manually (see page 36).

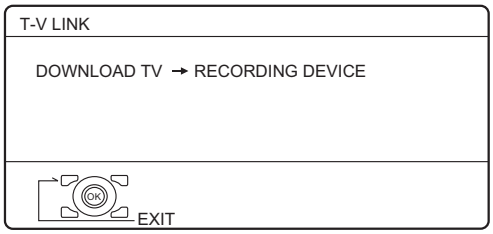
For users in the UK:
If you have any problems setting up your new TV, please call the JVC Helpline on **0870 330 5000**.

■ Downloading the data to VCR

You can transmit to the latest Analogue terrestrial broadcasting Programme numbers (PR) data to a VCR with the T-V LINK function.

Caution

- This only works when a T-V LINK compatible VCR is connected to the EXT-2 terminal.
- This only works when the T-V LINK menu is being displayed.



D0005-EN

1 Turn on the VCR

2 Press the OK button

The data transmission begins.

D0037-EN

The T-V LINK menu disappears once the data transmission ends.

When the T-V LINK menu is changed over to another menu:
The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

If "FEATURE NOT AVAILABLE" appears at the T-V LINK menu:
Check the following three items. Then press the ◀ button to retry data transmission.

- Has a T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all its proper connections?

T-V LINK functions

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

To use T-V LINK functions:
A "T-V LINK compatible VCR" means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

"Q-LINK" (a trademark of Panasonic Corporation)
"Data Logic" (a trademark of Metz Corporation)
"Easy Link" (a trademark of Phillips Corporation)
"Megalogic" (a trademark of Grundig Corporation)
"SMARTLINK" (a trademark of Sony Corporation).

■ Pre-set download

The VCR will automatically download the registered data on the TV Analogue terrestrial broadcasting channels from the TV. This means you do not need to set up the program channels on your VCR manually. The preset download function automatically begins when the initial setting is complete or whenever you carry out the AUTO PROGRAM or EDIT/MANUAL functions.

You can also carry out this function using your VCR controls.

When "FEATURE NOT AVAILABLE" is displayed:
If "FEATURE NOT AVAILABLE" is displayed, the download was not performed correctly. Before trying to download again, check that:

- the VCR power is turned on
- the VCR is T-V LINK compatible
- the VCR is connected to the EXT-2 terminal
- the SCART cable is fully wired.

■ Direct Rec

"What You See Is What You Record"

You can easily record to VCR the images that you are watching on the TV.

For details, read the manual for your VCR. Use your VCR controls. "DEVICE IS RECORDING" is displayed.

You cannot carry out Direct Rec using your TV's control.
Generally, the VCR cannot record a TV channel that it cannot receive properly on its own tuner, even if you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV's output if that channel can be viewed on the TV. For details, see your VCR instruction manual.

Do not turn the TV off in the following cases.

- when recording images from an external device connected to the TV (for example a camcorder)
- when recording a TV channel after it has been unscrambled on a decoder
- when recording a TV channel by using the TV's output because the VCR's own tuner cannot properly receive that channel.
- when recording Digital terrestrial broadcasting (DVB-T).

If you change channels or perform other operations while a Digital terrestrial broadcasting (DVB-T) channel is being recorded, a window appears asking whether to stop the recording.

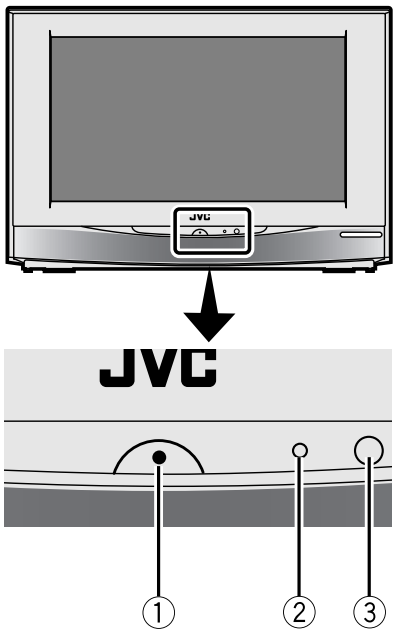
Press the OK button to stop the recording, or the TV/DTV button to continue the recording.

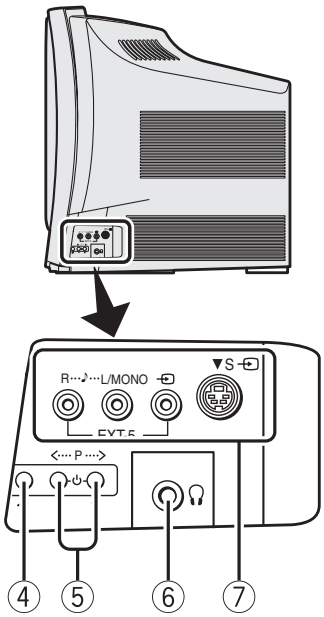
When the VCR is not ready, the following messages are displayed.

ERROR MESSAGE	Cause and countermeasure
NO RECORDING	The VCR is not able to record. Check the VCR.
NO RECORDING POSSIBLE	The TV input is set to EXT-4. Since the EXT-4 picture cannot be output to EXT-2, DIRECT REC is not possible.
NO RECORDING, MEDIA PROBLEM	The RECORDING DEVICE is not ready to record. Check the VCR tape.
NO RECORDING, DEVICE BUSY	The RECORDING DEVICE cannot record as it is recording or playing. Check the VCR.

Refer to the VCR instruction manual.

TV buttons and functions





See the pages in parentheses for details.

① Main power button (pages 9, 13)
② Power lamp (pages 9, 13)
③ Remote control sensor
④ ◿ (Volume) button (page 14)
⑤ P ∨/∧ buttons/ −/+ buttons (page 13)
⑥ Headphone jack (mini jack) (page 53)
⑦ EXT-5 terminal (pages 42, 53)

Turn the main power on

Press the main power button on the TV.
The power lamp lights red and your TV is in standby mode.

- If the power lamp lights green, the TV is already on.

To turn the main power off:
Press the main power button again.
The power lamp goes off.

Caution

- The main power button on the TV does not fully isolate the TV from the AC supply. If you are not going to use the TV for a long period, be sure to disconnect the AC plug from the AC socket.

Turn the TV on from standby mode

Press the P ∨/∧ buttons to turn the TV on from standby mode

Choose a TV channel

Press the P ∨/∧ buttons to choose a programme number (PR) or an EXT terminal
The EXT terminal cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

To switch between Analogue terrestrial broadcasting and Digiatl terrestrial broadcasting (DVB-T):

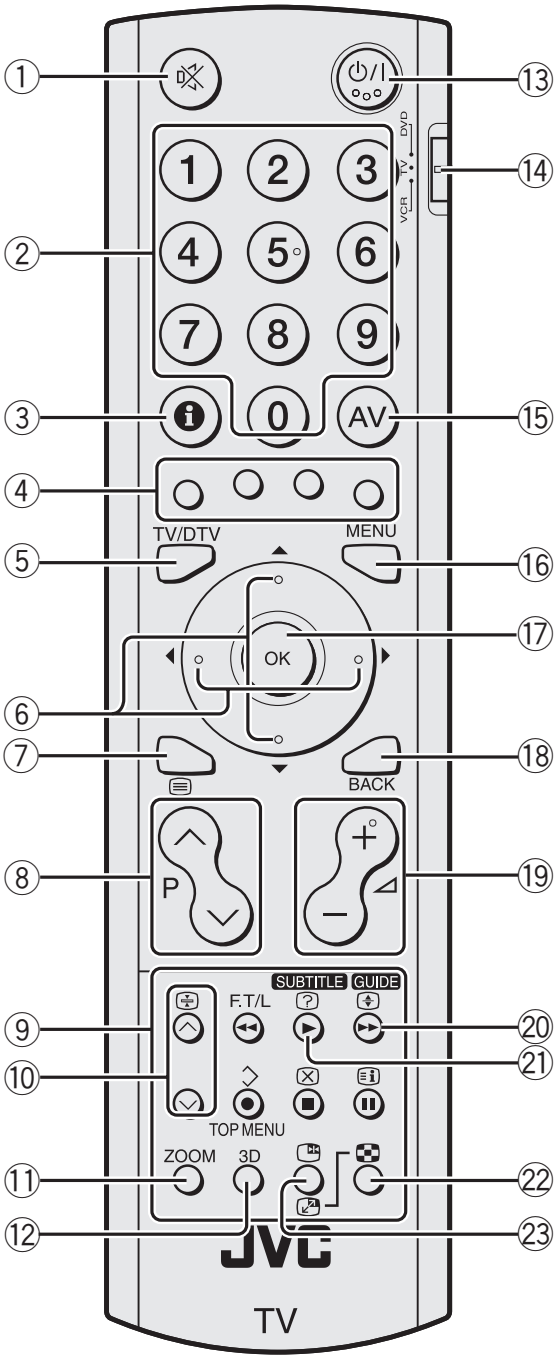
1. **Press the ◿ (Volume) button**
2. **Press the ◿ (Volume) button again when the volume level indicator appears**

Adjust the volume

1 Press the ◿ (Volume) button once
The volume level indicator appears.

2 Press the −/+ buttons while the volume level indicator is displayed

Remote control buttons and functions



① Muting button
② Number buttons
③ Information button
④ Colour button
⑤ **TV/DTV** button
⑥ ◀/▶/▼/▲ buttons
⑦ ☰ (Text) button
⑧ **P** ∨/∧ buttons
⑨ VCR/DVD/Teletext control buttons
⑩ ∨/∧ buttons
⑪ **ZOOM** button
⑫ **3D** button
⑬ ⏻/I (Standby) button
⑭ VCR/TV/DVD switch
⑮ **AV** button
⑯ **MENU** button
⑰ **OK** button
⑱ **BACK** button
⑲ ◿ (Volume) −/+ buttons
⑳ **GUIDE** button
㉑ **SUBTITLE** button
㉒ ◘ (Multi) button
㉓ ⧉/⧉ (Freeze/Swap) button

Turn the TV on or off from standby mode

Press the ⏻/I (standby) button to turn the TV on or off.

When the TV is turned on, the power lamp lights green.

- The power can be turned on by pressing the **TV/DTV** button, **P** ∨/∧ buttons or Number buttons.

To turn the TV on or off, set the VCR/TV/DVD switch on the remote control to the TV position and press the ⏻/I button.
If the VCR/TV/DVD switch on the remote control is set to a position other than TV, the TV will not be turned on or off even if the ⏻/I button is pressed.

Choose a TV channel and watch images from external devices

- If the picture is tilted, correct it. See "PICTURE TILT" on page 40.

■ Switching between Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting.

Press the TV/DTV button.
The broadcasting is switched every time the button is pressed.

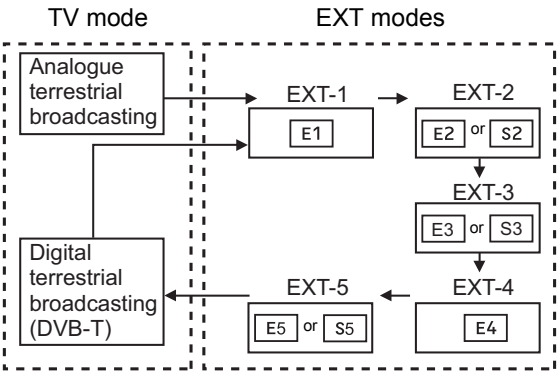
■ Use the number buttons: Enter the programme number (PR) of the channel using the number buttons.

Example:
- PR 6 → press ***6***
- PR 12 → press ***1*** and ***2***
- PR 123 → press ***1***, ***2*** and ***3***

■ Use the P ∨/∧ buttons: Press the P ∨/∧ buttons to choose the programme number (PR) you want.

- For Digital terrestrial broadcasting (DVB-T), if the FAVOURITE setting in the "Edit PR List" (see page 49) has been set, only that programme number (PR) can be chosen.
- For Analogue terrestrial broadcasting, an EXT terminal can also be chosen.

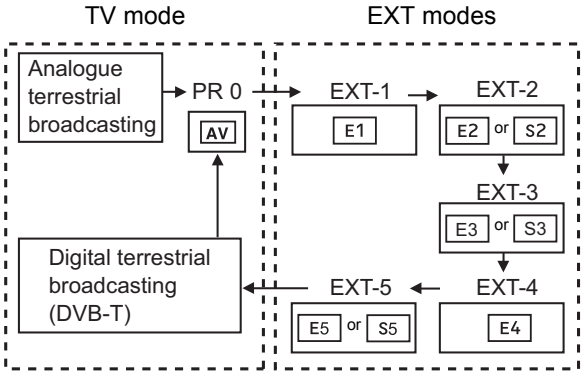
■ Use the AV button: Press the AV button to choose an EXT terminal.



- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see "S-IN (S-VIDEO input)" on page 42.
- If you do not have a clear picture or no colour appears, change the colour system manually. See "COLOUR SYSTEM" on page 31.
- If you choose an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.
- This TV set has a function which can automatically change over the input according to a special signal output from an external device. (The EXT-4 and EXT-5 terminals do not support this function.)
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with 625p progressive-scanning component signals.
  If this happens, change the output setting of the connected device to 625i interlace-scanning component signal output. See the instructions that came with the device for more information.

To return to a TV channel:
Press the **TV/DTV** button, the **P** ∨/∧ buttons or the number buttons.

To use the programme number PR 0 (AV):
When the TV and VCR are connected only by the aerial cable, choosing the programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the programme number PR 0 (AV) manually. For details, see "EDIT/ MANUAL (Analogue)" on page 36.
Pressing the **AV** button changes the choice as follows:



- The VCR sends its playback image along the aerial cable as an RF (radio frequency) signal.
- Also see your VCR instruction manual.

Adjust the volume

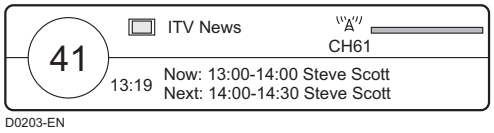
Press the ◿ −/+ buttons to adjust the volume.
The volume indicator appears and the volume changes as you press the ◿ −/+ buttons.

■ Muting the sound

Press the 🔇 (muting) button to turn off the sound.
Pressing the 🔇 (muting) button again restores the previous volume level.

Information function

When watching Digital terrestrial broadcasting (DVB-T):
When the ⓘ (Information) button is pressed, the programme information appears for approximately 1 minute.



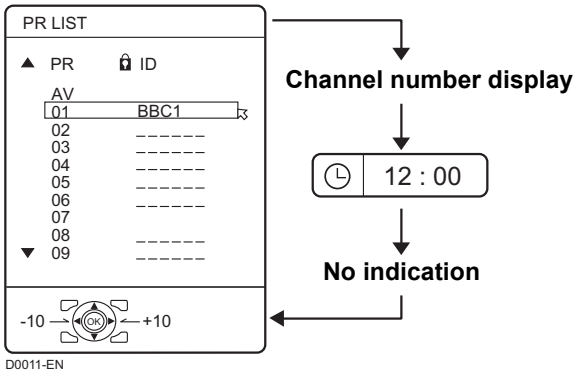
D0203-EN

- When the ⓘ (Information) button is pressed while the information is being displayed, the information disappears.

- The time display in the programme information uses the time information which is included in the Digital terrestrial broadcasting (DVB-T). Depending on the channel, the time information may not be correct.

When watching Analogue terrestrial broadcasting:
You can see the channel number of the programme you are watching, the current time or the PR LIST.
From the PR LIST, you can choose a channel or EXT terminal.

Press the ⓘ (Information) button to display the information you want to see.
Pressing the ⓘ (Information) button changes the display as follows:



D0011-EN

Channel number display:
The channel number and channel name (when the channel name is registered) of the programme you are watching or the EXT terminal number is displayed.

Time display:
The current time of the teletext data is displayed.
If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes.

- An incorrect current time is sometimes displayed when watching videos.

PR LIST:
The programme number (PR) and EXT terminal list is displayed.
Pressing the **OK** button after choosing the programme number (PR) or EXT terminal with the ◄/►/▼/▲ buttons will display the chosen programme or EXT terminal.

- For programme numbers (PR) for which the CHILD LOCK function is set, the 🔒 (CHILD LOCK) mark is displayed. For details see “CHILD LOCK” on page 34.

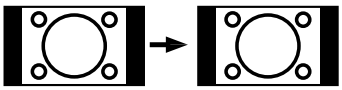
ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

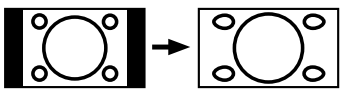
AUTO:
When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.
If a WSS signal is not included, the picture is displayed according to the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 32.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.
- When watching a 16:9 FULL programme with Digital terrestrial broadcasting (DVB-T), the aspect ratio is FULL.

REGULAR:
Use to view a normal picture (4:3 aspect ratio) as this is its original shape.

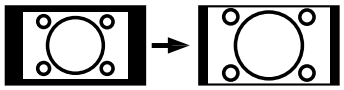


PANORAMIC:
This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.

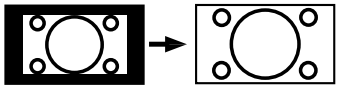


- The top and bottom of the picture are slightly cut off.

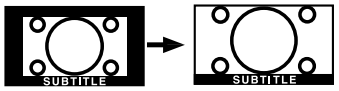
14:9 ZOOM:
This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



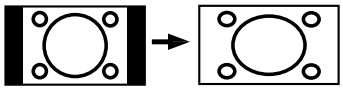
16:9 ZOOM:
This zooms up the wide picture (16:9 aspect ratio) to the full screen.



16:9 ZOOM SUBTITLE:
This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



FULL:
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.

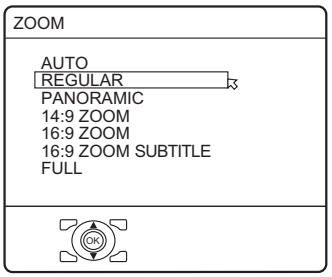


- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the FULL mode to restore the picture to its original shape.

- When you use this TV's output signal to record a Digital terrestrial broadcasting (DVB-T) 16:9 broadcast, it will be recorded with its picture squeezed into a 4:3 aspect ratio picture.
  Use the FULL mode to restore the picture to its original shape when playing the recording.

■ Choose the ZOOM mode

1 Press the ZOOM button to display the ZOOM menu



D0009-EN

2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

- The ZOOM mode may be automatically changed by the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

1 Press the ZOOM button

The ZOOM menu appears.

2 Press the OK button to display the ZOOM mode indicator

The indicator appears.

D0010-EN

3 While it is displayed, press the ▼/▲ buttons to change the position of the picture

- You cannot adjust the visible area in REGULAR or FULL mode.

- Some menu displays can be cut off when you move the visible area up or down while watching Digital terrestrial broadcasting (DVB-T).

3D CINEMA SOUND function

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from headphones.

Press the 3D button and choose "ON", "MONO" or "OFF".

ON:
Choose to add the 3D CINEMA SOUND effect to stereo sound.

MONO:
Choose to add the 3D CINEMA SOUND effect to mono sound.

OFF:
Choose to cancel the 3D CINEMA SOUND effect.

- The 3D CINEMA SOUND effect can be adjusted with the "3D CINEMA SOUND" menu (see page 33).

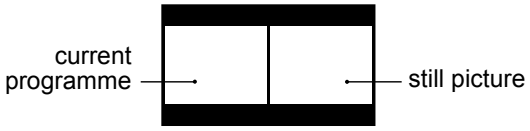
Using the FREEZE function

This function can only be used when watching Analogue terrestrial broadcasting.

You can view the current programme as a still picture.

1 Press the button

The still picture of the current picture will appear.



D1056-EN

To cancel the FREEZE function:
Press the button, the P ∨/∧ buttons or the number buttons.

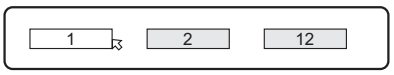
- The FREEZE function does not work while a sub-picture is displayed.
- The still picture cannot be output from the TV.
- The FREEZE function does not work for pictures of 1125i signal.

Using the MULTI-PICTURE function

When watching Digital terrestrial broadcasting (DVB-T):

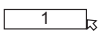
1 Press the button

The MULTI-PICTURE menu appears.



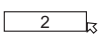
D0101-EN

2 Press the ◀/▶ buttons and choose 2, then press the OK button



D0102

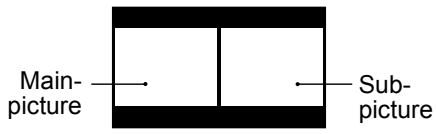
Choose to return to one screen.



D0103

Choose to change to 2-pictures multi.

2-pictures multi:



D1056-EN

D0104

This cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

- You can watch Digital terrestrial broadcasting (DVB-T) in the main-picture. You can watch the Analogue terrestrial broadcasting or EXT picture in the sub-picture.
- When the Digital terrestrial broadcasting (DVB-T) in the main-picture is 16:9 FULL, the main-picture aspect ratio is 16:9.
- The main-picture sound is emitted from the TV speaker. If headphones are connected, you can listen to the sub-picture sound. Adjust the headphone volume with HEADPHONE VOLUME in the SOUND menu. The main-picture sound cannot be listened to with the headphones.

- Choose the main-picture channel by pressing the **P** ∨/∧ buttons. Choose the sub-picture channel by pressing the ∨/∧ buttons.
- You cannot use the ⧉ (swap) button. When watching Digital terrestrial broadcasting (DVB-T), the main-picture and sub-picture cannot be switched.
- 1125i, 625p, and 525p signal pictures cannot be displayed as the sub-picture.

To return the multi-picture to one screen:

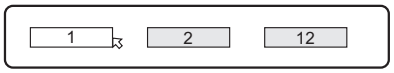
Press the ⊞ button, press the ◀/▶ buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV/DTV** button will also return the display to one screen.

When watching Analogue terrestrial broadcasting:

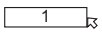
1 Press the ⊞ button

The MULTI-PICTURE menu appears.



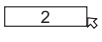
D0101-EN

2 Press the ◀/▶ buttons to choose the number of screens and then press the OK button



Choose to return to one screen.

D0102



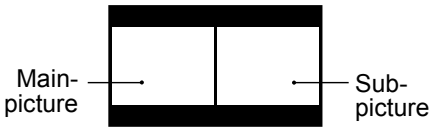
Choose to change to 2-pictures multi.

D0103

Choose to change to 12-pictures multi.

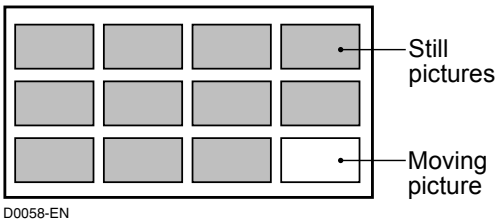
D0104

2-pictures multi:



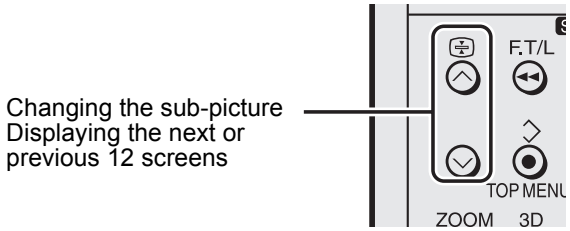
D1056-EN

12-pictures multi:



D0058-EN

- When set to 2-pictures multi, you can view a TV picture and a picture from an external device. You can not view a TV picture on more than one screen at the same time.
- When 12-pictures multi is set, pictures from external devices are not displayed.
- When set to 2-pictures multi, the main-picture can be changed by pressing the **P** ∨/∧ buttons. The sub-picture screen can be changed by pressing the ∨/∧ buttons.
  When set to 12-pictures multi and there are more than 12 pictures, the next or previous 12 screens can be displayed by pressing the ∨/∧ buttons.



- When set to 2-pictures multi, press the ⧉ (swap) button to switch the main-picture and sub-picture.
- 2-pictures multi function does not work for a picture of 1125i signal.
- A picture of 625p or 525p signal cannot be displayed as the sub-picture. Pay attention to the following.
  - When the EXT-4 picture is a picture of 625p or 525p signal, you cannot choose EXT-4 with the ∨/∧ buttons.
  - When the EXT-4 picture signal is changed to 625p, 525p or 1125i signal while the EXT-4 picture is displayed as the sub-picture, the 2-pictures multi function is cancelled.

- The pictures cannot be swapped when a picture of 625p or 525p signal from EXT-4 is being displayed as the main picture.

- Do not press the ⧉ (swap) button while you are recording the TV output on the VCR. If you do, the TV output signal will change.
- You cannot view a scrambled channel in the sub-picture. If the ⧉ (swap) button is pressed when viewing a scrambled channel in the main-picture using an external decoder, the channel you have been viewing in the sub-picture will appear in both the main-picture and sub-picture.
- When set to 2-pictures multi and the headphones are connected, the sound for the main-picture is output from the TV speakers and the sound from the sub-picture is output from the headphones.
  - Adjust the volume of the sub-picture sound from the headphones with "HEADPHONE VOLUME" in the "SOUND" menu (see page 33).
  - The main-picture sound can not be heard through the headphones.
- When set to 12-pictures multi, press the ◄/►/▼/▲ buttons to choose the screen you want to view and the press the **OK** button to display that picture on the whole screen.
- The BLUE BACK function does not work when the MULTI-PICTURE function is being used.
- The ZOOM function does not work when the MULTI-PICTURE function is being used.

To return the multi-picture to one screen:

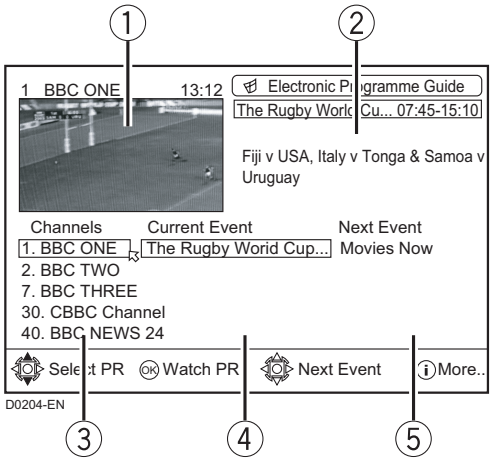
Press the ⊞ button, press the ◄/► buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV/DTV** button will also return the display to one screen.

Using the GUIDE

- **Use when watching Digital terrestrial broadcasting (DVB-T).**

The guide appears when the **GUIDE** button is pressed while watching Digital terrestrial broadcasting (DVB-T).



① Quarter-screen
The programme you are watching is shown.
- Sometimes you may notice a drop in picture quality while watching your programme in the quarter-screen. This is not a fault.

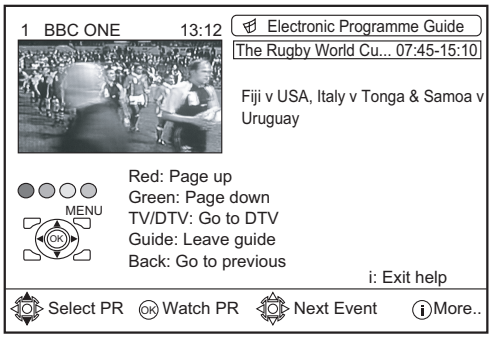
② Programme name, broadcast time and brief description of programme
The programme name, broadcast time and a brief description of the programme are displayed for the programme chosen from the current event column or next event column.

③ Channel column

④ Current event column

⑤ Next event column

Pressing the ⓘ (Information) button to display the help screen. Press it again to return to the guide screen.



D0205-EN

Help screen

■ Choosing a channel

1 Press the ▼/▲ buttons and choose a channel

The programme name, broadcast time and a brief description of the programme are displayed.

- Press the red and green buttons to scroll the channel column.

2 Press the OK button

The chosen programme appears on the quarter-screen.

- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the guide screen disappears and the normal screen returns.

■ Set reminder

When you schedule a programme, you will not miss a programme that you want to watch.

1 Press the ◀/▶ buttons and choose the Next Event column

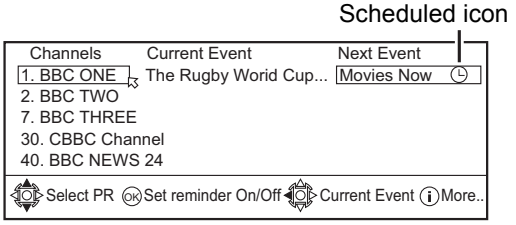
2 Press the ▼/▲ buttons and choose the program that you want to schedule

The programme name, broadcast time and a brief description of the chosen programme are displayed.

- Press the red and green buttons to scroll the channel column.

3 Press the OK button

The scheduled icon appears at the right of the chosen programme and the scheduling is completed.



D0206-EN

- Steps 1 to 3 can be repeated to schedule more programmes.
- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the guide screen disappears and the normal screen returns.

When the TV is being watched, it automatically changes to the channel of the scheduled programme when the start time of the scheduled program is reached.

- The scheduling function does not work when the TV is turned off.

Cancelling a scheduled programme.

Display the guide screen, choose a programme which has the scheduled icon (🕒), and press the **OK** button.
The icon disappears and the scheduling is cancelled.

■ Checking programme details

Press the ◀/▶/▼/▲ buttons and choose a programme from the Current Event or Next Event columns

The programme name, broadcast time and a brief description of the chosen programme appear.

- Press the red and green buttons to scroll the channel column.

- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the guide screen disappears and the normal screen returns.

Displaying the Subtitles

- **Use this function when watching Digital terrestrial broadcasting (DVB-T).**

With Digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles. Subtitles can be displayed when watching these programmes.

Press the SUBTITLE button when watching Digital terrestrial broadcasting (DVB-T)

"Subtitle ON" appears at the top-left of the screen and, when the programme has subtitles, the subtitles are displayed.

D0207-EN

- When the **SUBTITLE** button is pressed again, "Subtitle OFF" appears and the subtitles disappear.

Operating a JVC brand VCR or DVD player

These buttons will operate a JVC brand VCR or DVD player. Pressing a button that looks the same as the device's original remote control button has the same effect as the original remote control.

1 Set the VCR/TV/DVD Switch to the VCR or DVD position

VCR:
When you are operating the VCR, set the switch to the VCR position.

- You can turn the VCR on or off with the ⏻/I (standby) button.

DVD:
When you are operating the DVD player, set the switch to the DVD position.

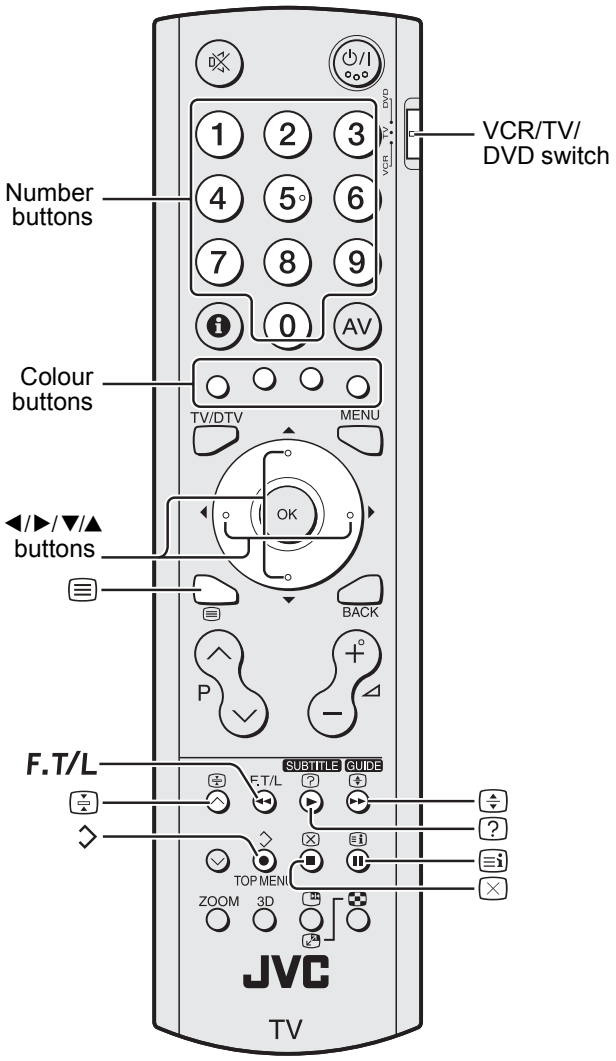
- You can turn the DVD player on or off with the ⏻/I (standby) button.
- You can also press the **MENU** or **TOP MENU** button and display the DVD disc menu screen, and then operate by pressing the ◀/▶/▼/▲ buttons.

2 Press the VCR/DVD Control Button to control your VCR or DVD player

- If your device is not made by JVC, these buttons will not work.
- Even if your device is made by JVC, some of these buttons may not work, depending on the device you are using.
- You can use the ∨/∧ buttons to choose a TV channel the VCR will receive, or choose the chapter the DVD player plays back.
- Some models of DVD player use the ∨/∧ buttons for both operating the fast forward/backward functions and for choosing the chapter. In this case, the ◀◀/▶▶ buttons do not work.

You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.
When you turn the TV on or off, set the VCR/TV/DVD switch to the TV position.

Teletext function



Basic operation (Digital)

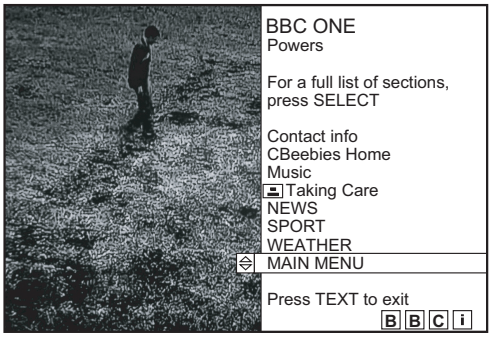
When watching Digital terrestrial broadcasting (DVB-T):

With Digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also watch digital teletext.

Digital teletext is sometimes broadcast at the same time as normal broadcasting.

1 Press the ☰ button

The digital teletext information appears.



D0208-EN

2 Operate it with the colour buttons, ◄/►/▼/▲ buttons and OK button

The operation method may differ depending on the contents of the digital teletext. Operate in accordance with the instructions displayed on digital teletext screen.

- When "Press SELECT" or similar message appears on the screen, press the **OK** button.

- When the ☰ (Text) button is pressed, the TV returns to television broadcasting.
- With Digital terrestrial broadcasting (DVB-T), in addition to digital teletext broadcasting at the same time as normal broadcasting, there are also channels with just digital teletext broadcasting.
- The aspect ratio when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture watched previously.
- When you press the ☰ (Text) button while subtitles are on, the subtitles are turned off. When you press the ☰ (Text) button again, the digital teletext screen is displayed.

The functions described on pages 26 and 27 cannot be used with digital teletext.

When watching Analogue terrestrial broadcasting:

Basic operation (Analogue)

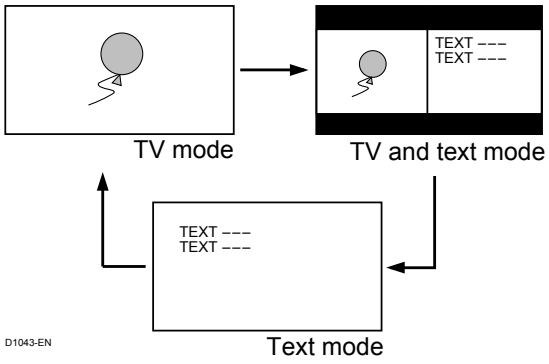
You can view two types of teletext broadcasts on the TV:
FLOF (Fastext) and WST.

1 Choose a TV channel with a teletext broadcast

2 Set the VCR/TV/DVD switch to the TV position

3 Press ▤ (Text) button to display the teletext

Pressing ▤ (Text) button changes the mode as follows:



4 Choose a teletext page by pressing the P ∨/∧ buttons, number buttons or colour buttons

To return to the TV mode:
Press the **TV/DTV** button or ▤ (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not work in the TV and text mode or Text mode.
- You cannot operate menus when viewing a teletext programme.

Using the List Mode

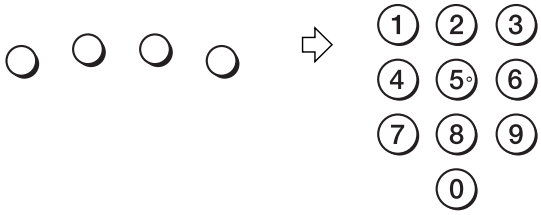
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

■ To store the page numbers:

1 Press *F.T/L* button to go into the List mode

The page numbers you have stored are displayed at the bottom of the screen.

2 Press a colour button to choose a position. Then press the number buttons to enter the page number



3 Press and hold down the ◇ (Store) button

The four page numbers blink white to show that they are stored in memory.

■ To call up a stored page:

1 Press the *F.T/L* button to enter the List mode

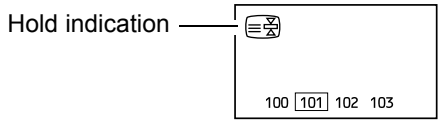
2 Press a colour button having a stored page

To exit the List mode:
Press the ***F.T/L*** button again.

Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

Press the ⊡ (Hold) button



To cancel the Hold function:
Press ⊡ (Hold) button again.

Sub-page

Some teletext pages include sub-pages that are automatically displayed.

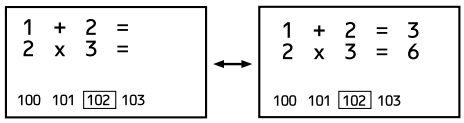
1 Choose a teletext page that includes sub-pages
Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

2 Press the ◀/▶ buttons to choose a sub-page number

Reveal

Some teletext pages include hidden text (such as answers to a quiz).
You can display the hidden text.

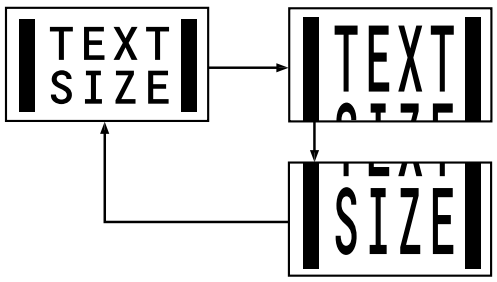
Each time you press the ? (Reveal) button, text is hidden or revealed



Size

You can double the height of the teletext display.

Press the ⊜ (Size) button



Index

You can return to the index page instantly.

Press the ⊟ (Index) button
Returns to page 100 or a previously specified page.

Cancel

You can search for a teletext page while watching TV.

1 Press the number button to enter a page number, or press a colour button
The TV searches for a teletext page.

2 Press ⊠ (Cancel) button
The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

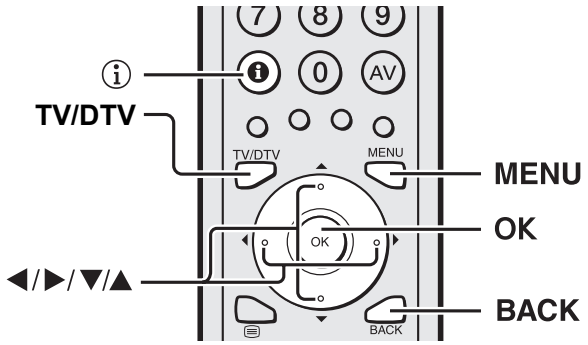
3 Press ⊠ (Cancel) button to return to a teletext page when the page number is on the screen

- The TV mode cannot be resumed by pressing the ⊠ (Cancel) button. To return to the TV mode press ***TV***.

Using the TV's menu

This TV has a number of functions you can operate using menus. To use all your TV's functions, you need to understand the basic menu operating techniques fully.

Buttons used to operate the menus



Basic operation

1 Press the MENU button to display the menu bar

D0105-EN

2 Press the ◀/▶ buttons to choose the menu you want to use and then press the OK button

D1105-EN

Chosen menu

Chosen menu name

3 Press the ▼/▲ buttons to choose the item to be set, press the ◀/▶ buttons to set the item, and then press the OK button

If there are sub-menus, use the ◀/▶/▼/▲ buttons to operate them.

- Press the **BACK** button to return to the previous menu.
- Press the **TV/DTV** or **MENU** button to exit from the menu.

Types of menu

D0106

PICTURE menu (see page 29)

D0107

SOUND menu (see page 33)

D0108

FEATURES menu (see page 34)

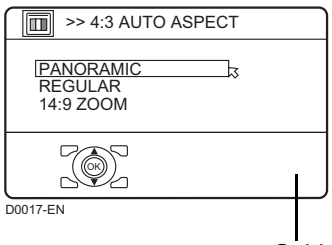
D0109

SET UP menu (see page 36)

D0224

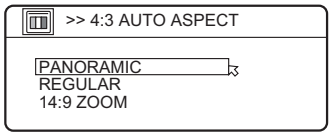
DTV menu (see page 45)

The menu guide area can be made to appear and disappear for some menus.
While the menu is displayed, press the ⓘ button to change between the guide area being displayed and not displayed.



D0017-EN

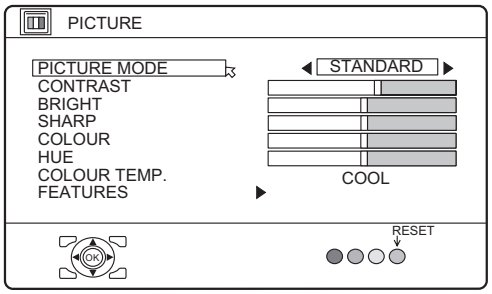
Guide area



D1017-EN

- The guide area for some menus will still be displayed even if the ⓘ button is pressed. This is not a fault.

PICTURE menu



D0014-EN

- While the PICTURE menu is displayed, pressing the blue button will set the CONTRAST, BRIGHT, SHARP, COLOUR, HUE settings to their default settings.

PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

BRIGHT:
Heightens contrast and sharpness.

STANDARD:
Standardizes picture adjustment.

SOFT:
Softens contrast and sharpness.

CONTRAST

You can adjust the picture contrast.
◀ : lower
▶ : higher

BRIGHT

You can adjust the picture brightness.
◀ : darker
▶ : brighter

SHARP

You can adjust the picture sharpness.
◀ : softer
▶ : sharper

COLOUR

You can adjust the picture colour.
◀ : lighter
▶ : deeper

HUE

You can adjust the picture tint.
◀ : reddish
▶ : greenish

- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

COLOUR TEMP.

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

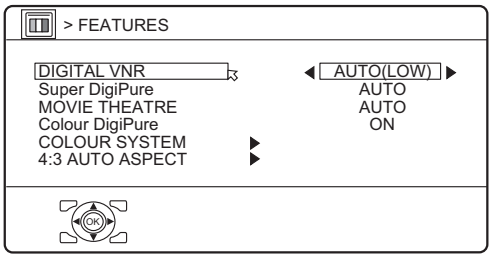
COOL:
A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

NORMAL:
The normal white colour.

WARM:
A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

FEATURES

Choose FEATURES and press the **OK** or ► button to display the sub-menu.



D1015-EN

- COLOUR SYSTEM cannot be chosen when watching Digital terrestrial broadcasting in one screen. When you are watching Digital terrestrial broadcasting (DVB-T) in the main picture and Analogue terrestrial broadcasting in the sub-picture, COLOUR SYSTEM can be chosen for the sub picture.

■ DIGITAL VNR

The DIGITAL VNR function cuts down the amount of 'noise' ('snow' or interference) in the original picture.
You can choose from the four DIGITAL VNR function settings of AUTO(LOW), AUTO(HIGH), MIN and MAX.

AUTO(LOW)/AUTO(HIGH):

The TV will automatically adjust the level of the DIGITAL VNR effect to match the amount of noise in the picture, giving you the best possible picture.

- If you set the DIGITAL VNR effect too high it can make the picture less sharp. It is recommended you use the AUTO(LOW) setting if you can. If you set the DIGITAL VNR function to AUTO(LOW) but still notice some noise, change the setting from AUTO(LOW) to AUTO(HIGH).

MIN:

The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO(LOW) but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO(LOW) to MIN.

- The MIN setting is not suitable for low-quality pictures which contain a lot of noise.

MAX:

The level of the DIGITAL VNR effect is set to the maximum. If you set the DIGITAL VNR function to AUTO(HIGH) but still notice some noise, change the setting from AUTO(HIGH) to MAX.

- The MAX setting is not suitable for high-quality pictures which contain very little noise.

■ Super DigiPure

The Super DigiPure function uses the latest in digital technology to give you a natural-looking picture. The Super DigiPure function includes the following two functions.

DigiPure function:

This function helps to create a natural-looking picture by eliminating unnecessary edges from high-contrast and crisp images. For images with low-contrast, edges are added to produce a sharper, more detailed picture.
You can choose from the three DigiPure function settings of AUTO, MIN and MAX.

- If you set the DigiPure effect too high on a low-quality picture that contains a lot of noise, this may actually make the noise worse. We recommend you use the AUTO setting if you can.

Picture motion compensation function:

This function displays fast-moving pictures (for example, the players or ball in a football game) more smoothly and naturally on the screen.

- The effect level of the picture motion compensation function cannot be changed. The effect level is the same no matter which of the AUTO, MIN or MAX settings is used.

AUTO:

The TV will automatically adjust the level of the DigiPure effect to match the amount of noise in the picture, giving the best possible picture.

MIN:
The level of DigiPure effect is set to the minimum. When you set the Super DigiPure function to AUTO and notice some noise, change the setting from AUTO to MIN.

- The MIN setting is not suitable for high-quality pictures which contain very little noise.

MAX:
The level of DigiPure effect is set to the maximum. If you set the Super DigiPure function to AUTO but feel that the original picture quality has not been reproduced fully, change the setting from AUTO to MAX.

- The MAX setting is not suitable for low-quality pictures which contain a lot of noise.

OFF:
The Super DigiPure function is turned off.

■ MOVIE THEATRE

The MOVIE THEATRE function displays a cinema film picture more smoothly and naturally on the screen.

AUTO:
The television automatically recognizes the type of signal and turns the function on and off.

ON:
This function is turned on.

OFF:
This function is turned off.

- The motion may appear unnatural when viewing images with the NTSC colour system. When the MOVIE THEATRE function is set to AUTO or ON, the motion may appear unnatural when viewing images with the NTSC colour system.

■ Colour DigiPure

Makes the colour outline stand out and increases the sharpness giving a clearer picture.

ON:
Colour DigiPure works. Normally use with this function turned on.

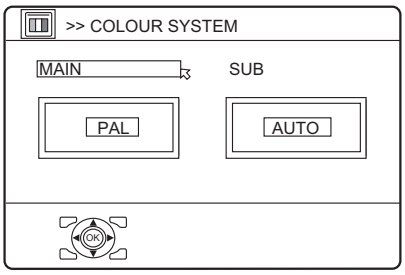
OFF:
Colour DigiPure doesn't work. This gives a less clear picture than when this function is turned on.

■ COLOUR SYSTEM

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

1 Choose COLOUR SYSTEM. Then press the OK or ▶ button

The sub-menu of the COLOUR SYSTEM function appears.



D0016-EN

2 Press the ◀/▶ buttons to choose MAIN or SUB

MAIN:
You can change the colour system of the main-picture.

SUB:
You can change the colour system of the sub-picture.

- Choose MAIN when a sub-picture is not displayed.

3 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button

PAL:
PAL system

NTSC 3.58:
NTSC 3.58 MHz system

NTSC 4.43:
NTSC 4.43 MHz system

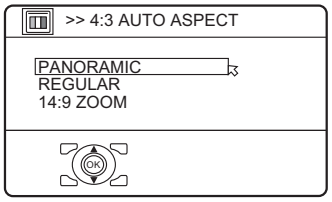
AUTO:
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.
- "COLOUR SYSTEM" cannot be chosen when you are watching the EXT-4 picture.

■ 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

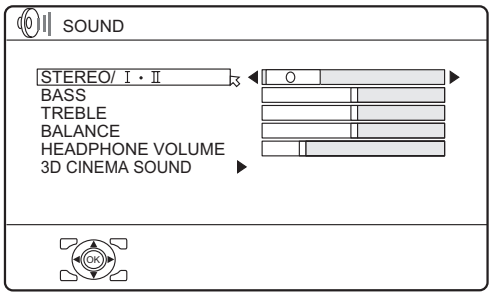
1 Choose 4:3 AUTO ASPECT then press the OK button



D0017-EN

2 Press the ▼/▲ buttons to choose a ZOOM mode

SOUND menu



D0019-EN

- Functions in the “SOUND” menu other than “HEADPHONE VOLUME” work for the TV speakers. They do not work for the sound from the headphones.
- When the headphones are connected and only one screen is displayed, only “HEADPHONE VOLUME” can be used.
- STEREO / I • II cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

STEREO / I • II

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). If you have poor reception on a stereo broadcast, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

∞: Stereo sound

O : mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

BASS

You can adjust the low tone of the sound.
◀ : weaker
▶ : strong

TREBLE

You can adjust the high tone of the sound.
◀ : weaker
▶ : strong

BALANCE

You can adjust the volume balance between the left and right speaker.
◀ : turn the left speaker’s volume level up.
▶ : turn the right speaker’s volume level up.

HEADPHONE VOLUME

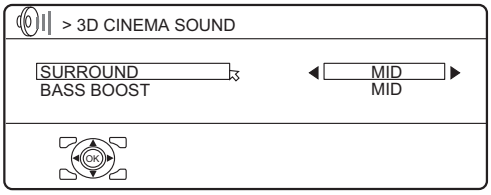
Adjust the volume of the sub-picture sound which is heard through the headphones when set to 2-pictures multi.
◀ : Reduce volume
▶ : Increase volume

- When not set to 2-pictures multi, the headphone volume is adjusted with the ◿ −/+ (volume) buttons.

3D CINEMA SOUND

Press the **3D** button to set the 3D CINEMA SOUND effect when 3D CINEMA SOUND is set to ON or MONO.

Choose 3D CINEMA SOUND. Then press the OK or ▶ button to display the sub-menu.



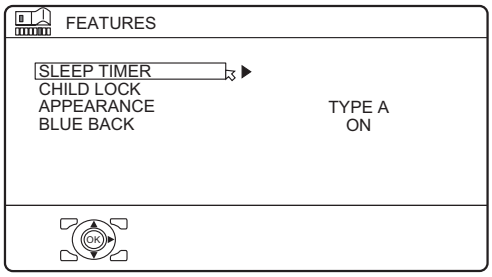
D0111-EN

■ SURROUND

Adjust the surround effect.
You can choose HIGH, MID or LOW.
Choosing LOW will reduce the surround effect and choosing HIGH will increase the surround effect.

■ BASS BOOST

Adjust the bass sound.
You can choose HIGH, MID or LOW.
Choosing LOW will reduce the bass sound and choosing HIGH will increase the bass sound.



D0023-EN

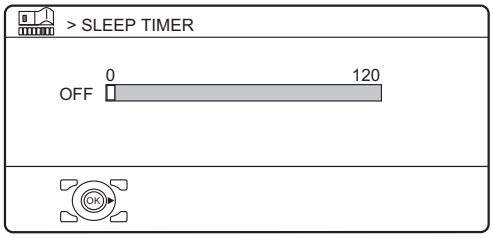
- CHILD LOCK, APPEARANCE and BLUE BACK cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

SLEEP TIMER

You can set the TV to automatically turn off after a set period of time.

1 Choose SLEEP TIMER. Then press the OK or ▶ button

A Sub-menu of the SLEEP TIMER function appears.



D0024-EN

2 Press the ◀/▶ buttons to set the period of time. Then press the OK button

You can set the period of time for up to 120 minutes (2 hours) in 10 minute steps.

- One minute before the SLEEP TIMER function turns off the TV, "GOOD NIGHT!" appears.
- The SLEEP TIMER function cannot be used to turn off the TV's main power.
- When the SLEEP TIMER function is on, you can display the sub-menu of the SLEEP TIMER function again to confirm or change the remaining period of time of the SLEEP TIMER function. Press the **OK** button to leave the menu after confirming or changing the remaining time.

To cancel the SLEEP TIMER function:

Press the ◀ button to set the period of time to "OFF".

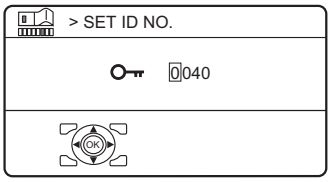
CHILD LOCK

When there is a TV channel you do not want your children to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display 🔒 (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel.

■ To set the CHILD LOCK function

1 Choose CHILD LOCK, then press the 0 button

"SET ID NO." (ID number setting screen) appears.



D0025-EN

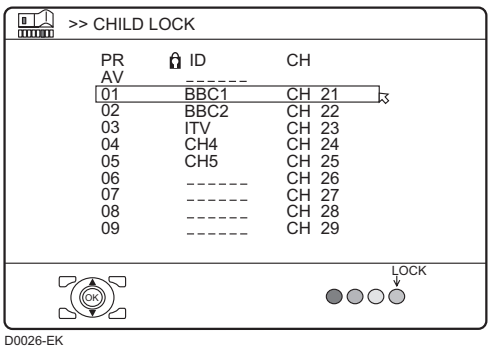
2 Set the ID number to your liking

1 Press the ▼/▲ buttons to choose a number.

2 Press the ◀/▶ buttons to move the cursor.

3 Press the OK button

The Sub-menu of CHILD LOCK appears.



D0026-EK

4 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

5 Press the blue button and set the CHILD LOCK function. Then press the OK button

🔒 (CHILD LOCK) appears and the TV channel is locked.

To reset the CHILD LOCK function:
Press the blue button again.
🔒 (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears if you choose the CHILD LOCK function and press the **OK** button.

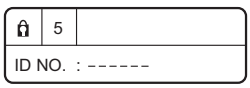
■ To view a locked TV channel

1 Choose a programme number (PR) of a locked TV channel with the number buttons or PR LIST

The screen changes to blue and the 🔒 (CHILD LOCK) appears. You cannot view the TV channel.

D0027-EN

2 Press the ⓘ (Information) button to display "ID NO." (ID No. input screen)



D0028-EN

3 Press the number buttons to enter the ID number

The lock is temporarily released so you can view the TV channel.

If you have forgotten the ID number:
Perform step 1 of "To set the CHILD LOCK function". After confirming the ID number, press the **TV/DTV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone tries to view the TV channel, it will be locked again.
- When you want to cancel the CHILD LOCK function, you must perform the operation "To set the CHILD LOCK function" again.
- To stop it being easy to choose the programme number (PR) of a locked TV channel, the programme number (PR) has been set so that it cannot be chosen with the ▼/▲ buttons or the buttons of the TV.
- To stop it being easy to reset the lock, "ID NO." (ID No. input screen) is set so that it cannot appear unless you press the ⓘ (Information) button.

APPEARANCE

Press the ◄/► button and choose the format in which the channel number is displayed from the three types: TYPE A, TYPE B and TYPE C.

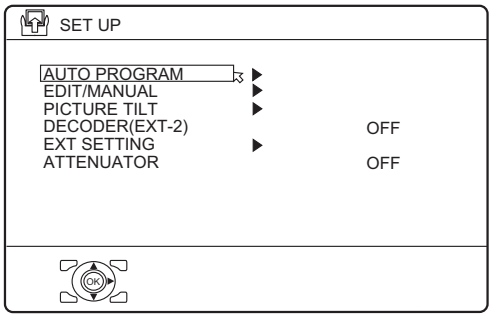
BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

ON:
This function is turned on.

OFF:
This function is turned off.

SET UP menu



D0029-EN

- AUTO PROGRAM, EDIT/MANUAL, PICTURE TILT and DECODER (EXT-2) cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

AUTO PROGRAM (Analogue)

You can again perform the AUTO PROGRAM function TV channel automatic registration which was performed in the "Initial settings" (page 8).
To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function.

1 Choose AUTO PROGRAM, then press the OK or ▶ button

The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).

2 Perform any extra operations you need to perform in step 3 (operations after AUTO PROGRAM ends) and step 4 of "Initial settings"

EDIT/MANUAL (Analogue)

The EDIT/MANUAL functions are divided into two types:

- editing the current programme numbers (PR) (EDIT functions); and
- manually storing a TV channel you want to view on a particular programme number (PR) (MANUAL function).

Here are the details about these functions:

MOVE:
This function changes the programme number (PR) of a TV channel.

ID:
This function registers a channel name (ID) to a TV channel.

INSERT:
This function adds a new TV channel in the current programme numbers (PR) list by using the CH number.

- You cannot use the INSERT function if you do not know the channel number of a TV channel. Use the MANUAL function to register a TV channel in the programme number (PR).

DELETE:
This function deletes a TV channel you do not want to list.

MANUAL:
This function manually stores a new TV channel in a programme number (PR).

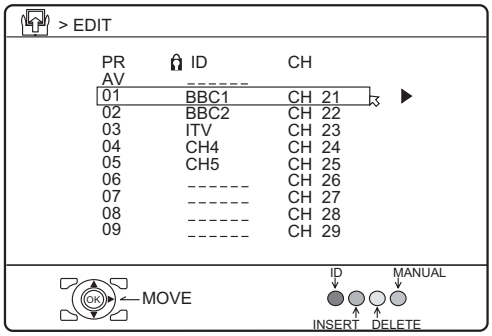
Caution

- Using the MOVE, DELETE or INSERT functions rewrites the current programme numbers (PR) list. Therefore, the programme numbers (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for that channel.
- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for that channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

■ Basic operation

1 Choose EDIT/MANUAL, then press the OK or ▶ button

The EDIT menu appears.

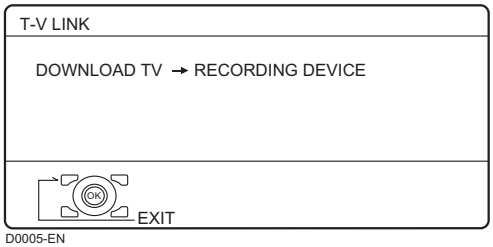


D0038-EK

2 Follow the description for the function you want to use

3 Press the OK button to complete the settings

The T-V LINK menu appears.



D0005-EN

If you do not have a T-V LINK compatible VCR connected:
Press the **TV/DTV** button to exit the T-V LINK menu.
The T-V LINK menu disappears.

If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:
Follow "Downloading the data to VCR" on page 11 to transmit the programme number (PR) data.

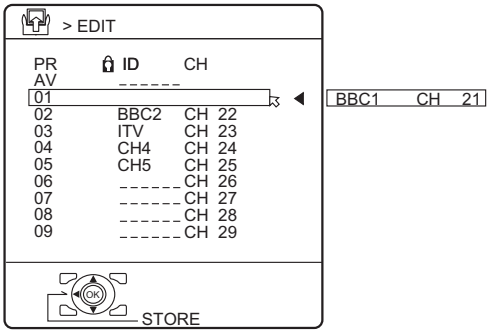
- For programme number PR 0, "AV" appears in the programme numbers (PR) list.
- An EXT terminal number does not appear in the programme numbers (PR) list.
- The CH number is a number unique to the TV and corresponds to the channel number of a TV channel. For the relationship between a channel number and a CH number, see "CH NUMBER" on page 40.

■ MOVE

1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

2 Press the ▶ button to start the MOVE function



D0030-EK

3 Press the ▼/▲ buttons to choose a new programme number (PR)

To cancel the MOVE function:
Press the **BACK** button.

4 Press the ◀ button to change the programme number (PR) of a TV channel to a new programme number (PR)

■ DELETE

1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

2 Press the yellow button to delete the TV channel

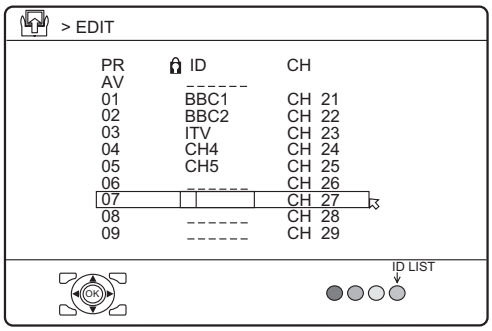
The TV channel is deleted from the programme numbers (PR) list.

■ ID

1 Press the ▼/▲ buttons to choose a TV channel

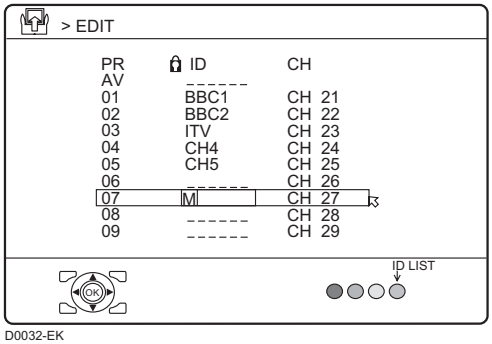
Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

2 Press the red button to start the ID function



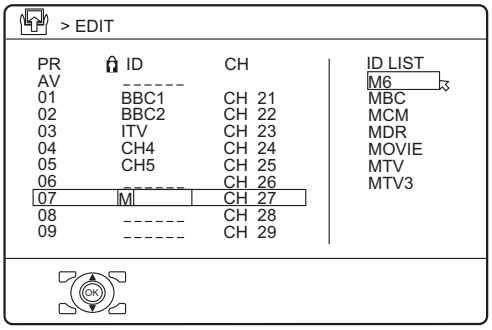
D0031-EK

3 Press the ▼/▲ buttons to choose the first character of a channel name (ID) you want to give the TV channel



D0032-EK

4 Press the blue button to display the ID LIST (channel name list)



D0033-EK

5 Press the ▼/▲ buttons to choose the channel name (ID)

To cancel the ID function:
Press the **BACK** button.

6 Press the OK button to give a channel name (ID) to a TV channel

- You can give your own unique channel name (ID) to the TV channel. When you have finished step 3, do not go to step 4. Press the ◄/► buttons to move the cursor, and press the ▼/▲ buttons to choose each character of the channel name (ID). Then press the **OK** button to register the channel name (ID) to the TV channel.

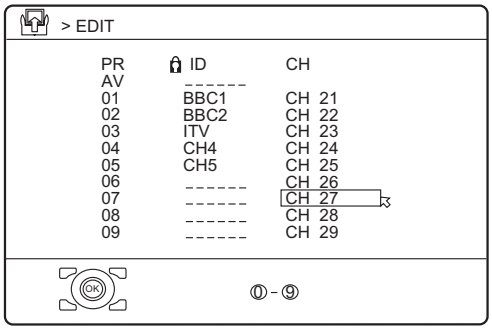
Before performing INSERT or MANUAL operation

- A CH number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH number from a table “CH NUMBER” on page 40 based on the Channel number of the TV channel.

■ INSERT

1 Press the ▼/▲ buttons to choose a programme number (PR) for which you will register a new TV channel

2 Press the green button and start the INSERT function



D0034-EN

To cancel the INSERT function:
Press the **BACK** button.

3 Press the number buttons to enter the remaining CH number

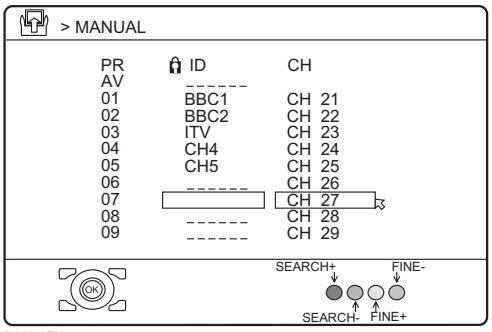
The TV shifts to registration mode. When the registration is completed, the picture of the TV channel appears on the screen.

- The CH number is a number given to each broadcast frequency that carries a TV channel. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH number, a “no-signal” picture appears.

■ MANUAL

1 Press the ▼/▲ buttons to choose a programme number (PR) for a new TV channel

2 Press the blue button to activate the MANUAL function



D0035-EK

To cancel the MANUAL function:
Press the **BACK** button.

3 Press the green or red button to search for a TV channel

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

4 Press the green or red button repeatedly until the TV channel you want appears

If the TV channel reception is poor:
Press the blue or yellow button to fine-tune the TV channel.

5 Press the OK button and register the TV channel to a Programme number (PR)

The normal EDIT menu is resumed.

■ CH NUMBER

- When you want to use the INSERT function on page 39, find the CH/CC number corresponding to the channel number of the TV channel from this table. If you want to know a particular TV channel's channel menu, look in TV listings magazines or contact the broadcaster.

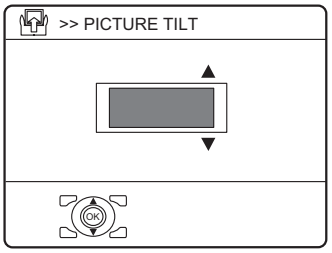
CH	Channel	CH	Channel
CH 21	E21	CH 46	E46
CH 22	E22	CH 47	E47
CH 23	E23	CH 48	E48
CH 24	E24	CH 49	E49
CH 25	E25	CH 50	E50
CH 26	E26	CH 51	E51
CH 27	E27	CH 52	E52
CH 28	E28	CH 53	E53
CH 29	E29	CH 54	E54
CH 30	E30	CH 55	E55
CH 31	E31	CH 56	E56
CH 32	E32	CH 57	E57
CH 33	E33	CH 58	E58
CH 34	E34	CH 59	E59
CH 35	E35	CH 60	E60
CH 36	E36	CH 61	E61
CH 37	E37	CH 62	E62
CH 38	E38	CH 63	E63
CH 39	E39	CH 64	E64
CH 40	E40	CH 65	E65
CH 41	E41	CH 66	E66
CH 42	E42	CH 67	E67
CH 43	E43	CH 68	E68
CH 44	E44	CH 69	E69
CH 45	E45		

PICTURE TILT

There are cases where the Earth's magnetic field may make the picture tilt or make unnatural colours appear in the corner of the screen. If this happens, you can correct it.

1 Choose PICTURE TILT, then press the OK or ▶ button

The sub-menu of the PICTURE TILT function appears.



D0018-EN

2 Press the ▼/▲ buttons until the picture becomes level. Then press the OK button

DECODER (EXT-2)

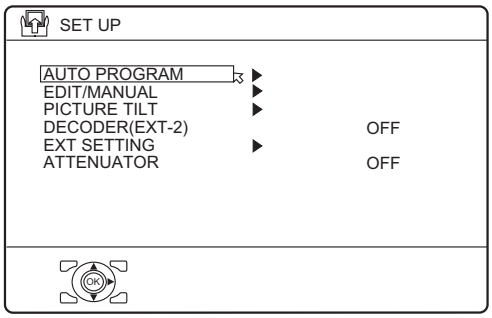
If you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

1 Turn on the decoder power

2 Display the scrambled TV channel on the TV

Even if the decoder is working, a scrambled picture appears.

3 Display the SET UP menu and choose DECODER (EXT-2)



D0029-EN

4 Press the ◀/▶ buttons to choose ON

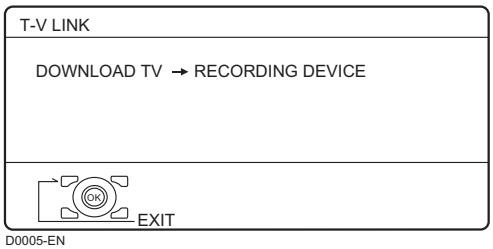
An unscrambled picture appears.

To cancel the DECODER (EXT-2) function:

Press the ◀/▶ buttons to choose OFF.

5 Press the OK button to complete the setting

The T-V LINK menu appears.



D0005-EN

You can send the programme numbers data to a VCR with the T-V LINK function.

6 Turn on the VCR, and then press the OK button to transmit the data to recording device

The T-V LINK menu disappears once the data transmission ends.

7 If you have another TV channel capable of being unscrambled with a Decoder, repeat steps 2 to 6

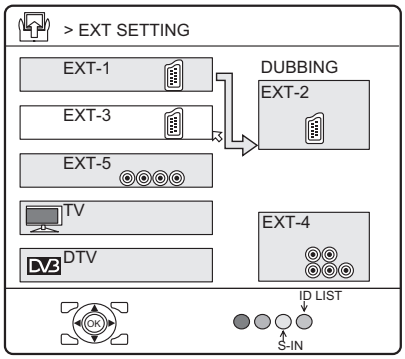
If the DECODER (EXT-2) function has been set to "ON" but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and decoder instruction manuals?
- Has the decoder power been turned on?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the recording device settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

EXT SETTING

1 Choose EXT SETTING, then press the OK or ▶ button

The EXT SETTING menu appears.



D0020-EN

2 Follow the instructions for the function you want to use and operate the function

S-IN:

You can enjoy the high-quality picture of the 2 S-VIDEO signal (Y/C signal).

ID LIST:

You can have a name for each of the devices connected for each EXT terminal.

DUBBING:

You can choose a signal source to be output from an EXT-2 terminal.

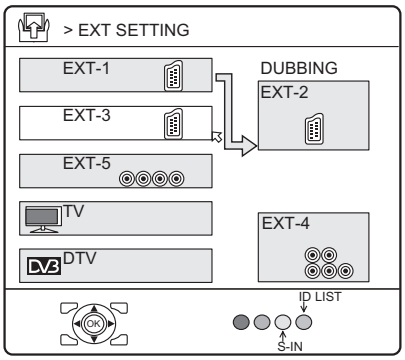
■ S-IN (S-VIDEO input)

You can connect a device (such as an S-VHS VCR) to enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

Preparation:

- First read the device's instruction manual and "Additional preparation" on page 53 to connect the device to the TV properly. Second, follow the device's instruction manual to set the device so that it sends an S-VIDEO signal (Y/C signal) to the TV.
- Do not set S-IN (S-VIDEO input) to an EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal). If it is set wrongly, a picture cannot appear.

1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal



D0020-EN

2 Press the yellow button and set the S-IN (S-VIDEO input). Then press the OK button

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

To cancel the S-IN (S-VIDEO input) setting:

Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

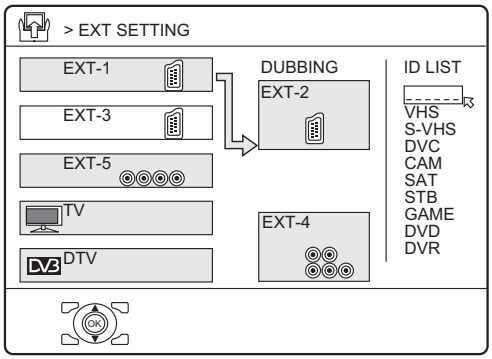
- The EXT-1 terminal does not support S-VIDEO signal (Y/C signal) and you cannot set S-IN (S-VIDEO input) in the EXT-1 terminal.
- Setting S-IN (S-VIDEO input) changes the head character from "E" to "S". When an EXT terminal receives a normal video signal, "E2", "E3" or "E5" appears on the display. This changes to "S2", "S3" or "S5" when it receives an S-VIDEO signal.
- Even a device which can output an S-VIDEO signal (Y/C signal) may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because the S-IN (S-VIDEO input) setting has been made, read the device instruction manual carefully again to check for the device settings.

■ ID LIST

You can store a name for each of the devices connected to each EXT terminal. Giving a name to an EXT terminal makes the EXT terminal number appear on the screen, together with its name.

1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal

2 Press the blue button to display the name list (ID LIST)



D0021-EN

3 Press the ▼/▲ buttons to choose a name. Then press the OK button

The ID LIST disappears and the name is assigned to the EXT terminal.

- You cannot assign an EXT terminal name not found in the name list (ID LIST).

To erase a name assigned to the EXT terminal:

Choose a blank space.

4 Press the OK button to complete the setting

■ DUBBING

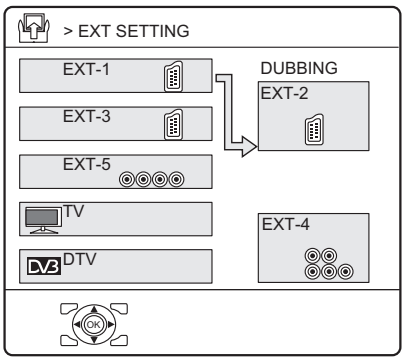
You can choose a signal source to be output from the EXT-2 terminal.

You can do this with the output signals of the devices connected to other EXT terminals, or with the picture and sound from a TV channel you are currently viewing.

Caution:

Every time you dub, check this DUBBING setting beforehand. This setting may change automatically when "Timers (DTV Timer Recording)" or "Direct Rec" of the T-V LINK function is used.

1 Press the ◀/▶ buttons to choose the arrow from the menu



D0022-EN

2 Press the ▼/▲ buttons to choose an EXT terminal or TV. Then press the OK button

The arrow in the menu represents a signal flow. The left side of the arrow shows a signal source output from the EXT-2 terminal.

EXT-1/EXT-3/EXT-5:

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

TV:
The picture and sound of the Analogue terrestrial broadcasting TV channel you are currently viewing are output from the EXT-2 terminal.

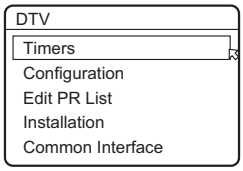
DTV:
The picture and sound of the Digital terrestrial broadcasting (DVB-T) TV channel you are currently viewing are output from the EXT-2 terminal.

- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
- The RGB signals from TV games cannot be output. Teletext programmes cannot be output.

ATTENUATOR

Turn the attenuator ON when noise is introduced into the picture or sound due to strong electric fields.
Normally use the TV with the attenuator turned OFF.

DTV menu



D0209-EN

- DTV in the menu bar can only be chosen when watching Digital terrestrial broadcasting (DVB-T).

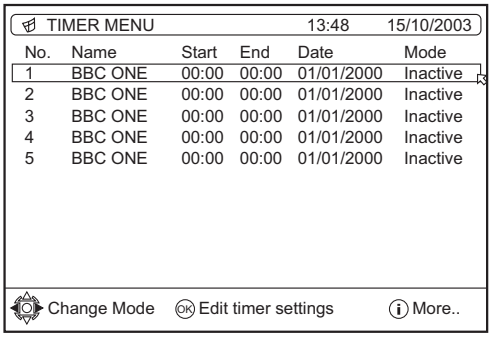
Timers (DTV Timer Recording)

By setting the timer, you can record a Digital terrestrial broadcasting (DVB-T) programme with a VCR connected to EXT-2 or EXT-3 while you are out.

- Before using DTV timer recording, the VCR and TV must be connected up correctly. For details, see “Connection when recording to VCR” on page 54.
- When you have a T-V LINK compatible VCR connected to EXT-2, all you need to do is set the TV timer settings and the programme will be recorded.
  By using “Direct Rec” of the T-V LINK function, the Direct Rec commands are sent from the TV to the VCR to automatically start and end the recording. It is not necessary to set the timer on the VCR.
- When your VCR is not T-V LINK compatible, you also need to set the VCR timer settings to match the TV timer settings.
- The recording may not start and stop at exactly the right times for some programmes. It is recommended that you allow some leeway when setting the recording times.
- Provided that the days and times are not the same, you can set up to five timer settings.
- When subtitles are ON, the subtitles displayed with the broadcast will be recorded. When you do not want to record the subtitles, you need turn OFF the Subtitle setting beforehand (See “Displaying the Subtitles” on page 24.).
- During DTV timer recording, you are unable to view the SET UP menu or the DTV menu.

1 Choose Timers and press the OK button

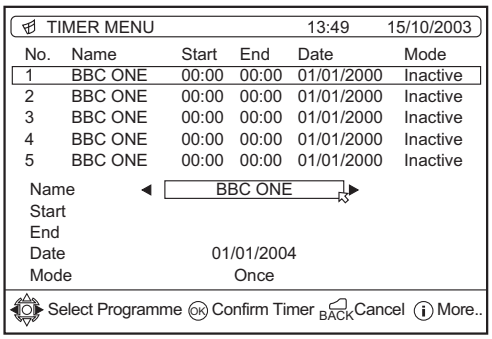
The TIMER menu appears.


TIMER MENU 13:48 15/10/2003
No. Name Start End Date Mode
1 BBC ONE 00:00 00:00 01/01/2000 Inactive
2 BBC ONE 00:00 00:00 01/01/2000 Inactive
3 BBC ONE 00:00 00:00 01/01/2000 Inactive
4 BBC ONE 00:00 00:00 01/01/2000 Inactive
5 BBC ONE 00:00 00:00 01/01/2000 Inactive
Change Mode OK Edit timer settings More..
D0210-EN

- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

2 Press ▼/▲ buttons to choose the timer number, and then press the OK button

The timer setting window appears.


TIMER MENU 13:49 15/10/2003
No. Name Start End Date Mode
1 BBC ONE 00:00 00:00 01/01/2000 Inactive
2 BBC ONE 00:00 00:00 01/01/2000 Inactive
3 BBC ONE 00:00 00:00 01/01/2000 Inactive
4 BBC ONE 00:00 00:00 01/01/2000 Inactive
5 BBC ONE 00:00 00:00 01/01/2000 Inactive
Name ◄ BBC ONE ►
Start
End
Date 01/01/2004
Mode Once
Select Programme OK Confirm Timer BACK Cancel More..
D0211-EN

3 Use the ▼/▲ buttons, number buttons and OK button to set the timer

- When setting the start time and end time, input 1200 for 12:00 PM, 1500 for 3:00 PM and 0000 for 12:00 AM.

Name:

Use the ◄/► buttons to choose the channel for which the timer is to be set.

Press the ▼ button.

Start:

Set the timer start time with the number buttons.

- When the ◄/► buttons are pressed, the input position moves.

Press the ▼ button.

End:
Set the timer end time with the number buttons.

- When the ◄/► buttons are pressed, the input position moves.

Press the ▼ button.

Date:
Set the date for the timer to work with the number buttons.

- When the ◄/► buttons are pressed, the input position moves.

Press the ▼ button.

Mode:
Use the ◄/► buttons to choose the timer mode (Once/Daily/Weekly), and then press the **OK** button.

4 Prepare your VCR for recording

When recording on a T-V LINK compatible VCR:

1. Insert the videotape for recording into the VCR and set the recording mode.
2. Make sure the VCR is ready to receive Direct Rec commands from the TV.
   - Make sure VCR timer settings do not coincide with the TV timer settings.
   - For details, see your VCR instruction manual.

When recording on a T-V LINK incompatible VCR:

1. Insert the videotape for recording into the VCR and set the recording mode.
2. Set the VCR recording timer settings.
   - Make the start and end time match that of the TV timer.
   - Set the VCR to record the signal from the external input that the TV is connected to.
   - For details, see your VCR instruction manual.

When you have finished Step 4, you have set the timer.

When you are not watching TV, make sure the TV is in standby.

WARNING:
Do not turn off the main power. The timer function will not work with the main power switched off.

The TV power lamp begins flashing at three minutes before the timer start time. When you are watching TV at the time, a message appears on the screen to inform you the timer is about to start.
If the TV is in Standby, the power lamp lights orange while timer recording is in progress.

- When performing timer recording with a T-V LINK compatible recording device, test the timer recording before you record the programme. There are some T-V LINK compatible recording device that will not correctly receive the Direct Rec command from the TV.
  If the recording device does not operate when the recording start time is reached, it is not receiving the Direct Rec command from the TV. In this case, follow the instructions of "When recording on a T-V LINK incompatible VCR:".

While the timer is in operation:

- You can turn the TV on or off (Standby). WARNING: Do not turn off the main power.
- You can watch Analogue terrestrial broadcasting channels or the pictures via an EXT terminal.
- Please note that any programme information that appears on the screen, such as when making changes to the Digital terrestrial broadcasting (DVB-T) channel picture, will be superimposed over the picture in the VCR recording.
- You cannot change Digital terrestrial broadcasting (DVB-T) channels while recording is in progress.

Cancelling and resetting the timer setting:

Cancelling the timer setting
Display the TIMER MENU and press the ▼/▲ buttons to choose which timer setting to cancel. Press the ◄/► buttons so that "Inactive" appears in the Mode column.

Reactivating the cancelled timer setting

Display the TIMER MENU and press the ▼/▲ buttons to choose which timer setting to reactivate. Press the ◄/► buttons so that "Active" appears in the Mode column.

Aborting the timer recording

Display the Digital terrestrial broadcasting (DVB-T) channel picture on the screen and press the ⓘ (Information) button. A window will appear asking if you want to stop the recording. Press the **OK** button to abort the recording. If you want to continue recording, press the **TV/DTV** button.

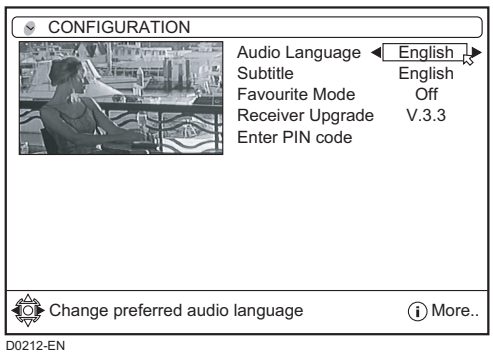
- If, while attempting to perform timer recording to a T-V LINK compatible VCR, the TV timer operation starts but the VCR does not start recording, the problem is related to the VCR. Resolve the VCR-related problem and refer to "Aborting the timer recording" to abort the recording. After this is done, reset the timer.
- When you are watching TV at the recording start time, you may encounter an error message stating that recording could not start because of a VCR-related problem. See "Direct Rec" on page 12, which lists and explains each error message.

Configuration

Set the basic setting for when watching Digital terrestrial broadcasting (DVB-T).

Choose configuration and press the OK button

CONFIGURATION appears.



D0212-EN

- When the **BACK** button is pressed, the previous screen is returned to. When the **TV/DTV** or **MENU** buttons are pressed, the menu disappears.
- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

■ Audio Language

With Digital terrestrial broadcasting (DVB-T), a number of languages can be broadcast at the same time. Choose the language you want to listen to when watching these broadcasts.

1 Press the ▼/▲ buttons and choose Audio Language

2 Press the ◄/► buttons and choose the language

The language changes every time the button is pressed.

- If the selected language is not broadcast, the default language will be played.

■ Subtitle language

With Digital terrestrial broadcasting (DVB-T), a number of subtitles can be broadcast at the same time. Choose the subtitle you want to display when watching these broadcasts.

1 Press the ▼/▲ buttons and choose Subtitle

2 Press the ◄/► buttons and choose a subtitle language that appears when the SUBTITLE button is pressed

The subtitle language changes every time the button is pressed.

■ Favourite Mode

Enable/disable the Edit PR List Favourites settings.

1 Press the ▼/▲ buttons and choose Favourite Mode

2 Press the ◄/► buttons and choose ON or OFF

On:
The Edit PR List Favourites settings are enabled.
When the **P** ∨/∧ button is pressed, only the channels chosen in the Edit PR List Favourites (those with the icon) can be chosen.

- For details on how to set your favourite channels, see “Setting the favourite channels” on page 51.

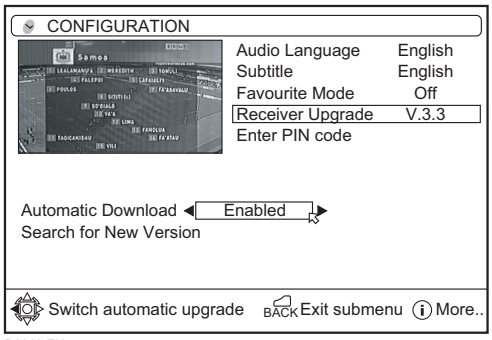
Off:
The Edit PR List Favourites settings are disabled
When the **P** ∨/∧ button is pressed, all the channels registered in the Edit PR List can be chosen.

■ Receiver Upgrade

Set the method to upgrade the Digital terrestrial broadcasting (DVB-T) receiver software.

1 Press the ▼/▲ buttons and choose Receiver Upgrade, and press the OK button

The setting window appears.



D0213-EN

- The actual version may be different to the Receiver Upgrade version displayed above.

2 Press the ▼/▲ buttons and choose Automatic Download, and press the ◄/► buttons to choose Enable or Disable

Enable (factory settings):
The Digital terrestrial broadcasting (DVB-T) software is automatically updated every day at 3:00 am. When enabled, the TV also searches for new software whenever it goes to standby.

Disable:
The Digital terrestrial broadcasting (DVB-T) software is not automatically updated.

Manually updating the Digital terrestrial broadcasting (DVB-T) information

Press the ▼/▲ buttons and choose Search for New Version, then press the OK button

The Digital terrestrial broadcasting (DVB-T) information is updated.

In the future, there is a possibility that the Receiver Update function may also be able to be used to update the Digital terrestrial broadcasting (DVB-T) software and add new functions.

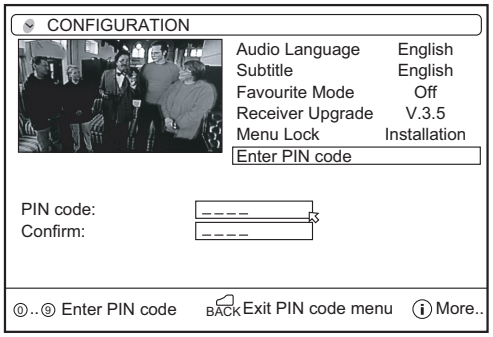
■ Enter PIN code

Choose Enter PIN code to change the PIN code for the Edit PR List menu's "Lock". The PIN code factory setting (how it is set when you purchase the television) is 0000.

1 Press the ▼/▲ buttons and choose Enter PIN code, then press OK button

2 Input the current PIN code

When you are making this setting for the first time, input 0000.
When a PIN code has already been set, enter the correct PIN code.
The PIN code setting window appears.



D0225-EN

3 Press the number buttons to input a new PIN code (password)

4 Input the new PIN code (password) again in the Confirm box

Your newly chosen PIN code is now set. You will now need to use the PIN code (password) you chose here to lock or unlock the Edit PR List's "Lock".

Edit PR List

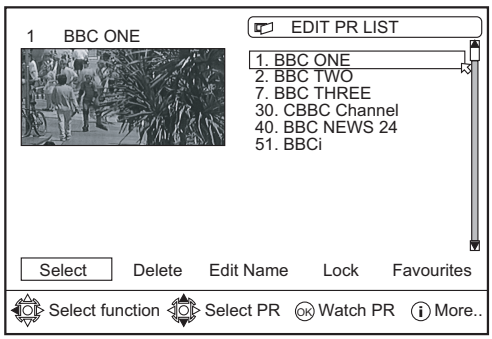
The Edit PR List can be used to do the following:

- delete registered channels
- edit channel names
- lock channels so that they cannot be watched by children
- set Favorites so that you can easily choose from only the channels you often watch.

Choose Edit PR List and press the OK button

EDIT PR LIST appears.

- Sometimes you may notice a drop in picture quality while watching your programme in the quarter-screen. This is not a fault.



D0202-EN

- When the **BACK** button is pressed, the previous screen is returned to. When the **TV/DTV** or **MENU** buttons are pressed, the menu disappears.
- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

■ Choosing a channel

The chosen channel is shown on the quarter-screen.

1 Press the ◀/▶ buttons and choose Select on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose a channel, and then press the OK button

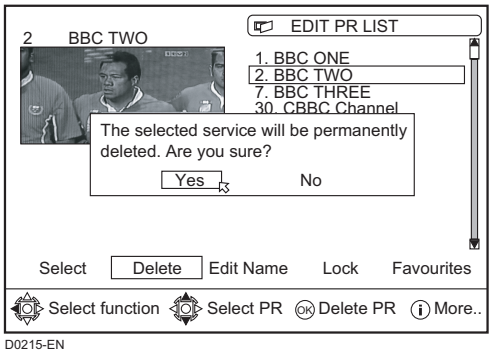
The picture of the chosen channel is shown on the quarter-screen.

■ Deleting a channel

1 Press the ◀/▶ buttons and choose Delete on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be deleted, and then press the OK button

The channel deletion confirmation window appears.



D0215-EN

3 Choose Yes and press the OK button

The chosen channel is deleted.

- If you do not want to delete the chosen channel, choose No and press the **OK** button.

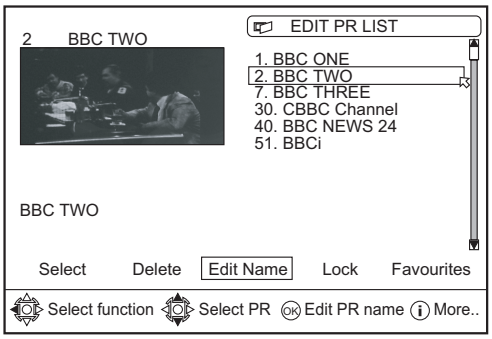
- Perform “Installation” (see page 52) to re-register a channel that you have deleted.

■ Editing a channel name

1 Press the ◀/▶ buttons and choose Edit Name on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be edited, and then press the OK button

The edit window appears.



D0216-EN

3 Press the ▼/▲ buttons and choose a character, press the ◀/▶ buttons to move the cursor and edit the name, and then press the OK button

The edited channel appears in the Edit PR List.

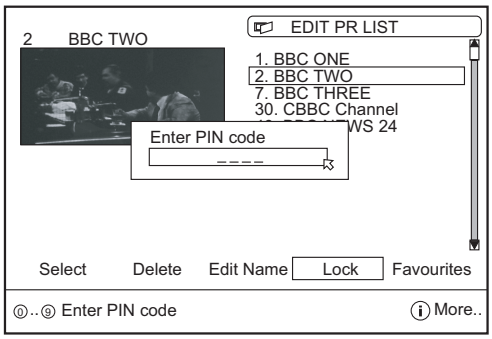
■ Locking a channel

Digital terrestrial broadcasting (DVB-T) channels can be locked in the same way as the FEATURES menu CHILD LOCK.

1 Press the ◀/▶ buttons and choose Lock on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be locked, and then press the OK button

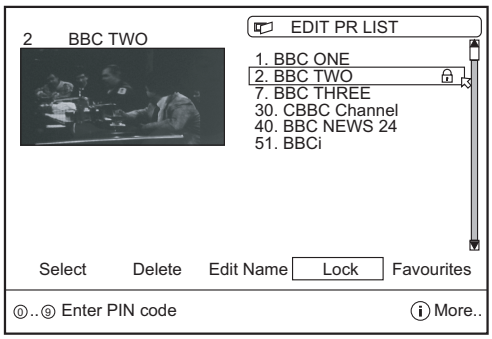
The Enter PIN code input window appears.



D0217-EN

3 Press the number buttons to input the correct PIN code and press the OK button

If you have not changed the PIN code in the CONFIGURATION menu's "Enter PIN code" (see page 49), input 0000.
If you have changed the PIN code in the CONFIGURATION menu's "Enter PIN code" (see page 49), input the PIN code you chose.
The lock icon appears next to the channel name in the Edit PR List.



D0218-EN

When a locked channel is chosen, the Enter PIN code input window will appear. If the correct PIN code is input, the picture appears.

- When you forget the PIN code for the "Lock", you can unlock locked channels by performing Automatic Search (see "Installation" on page 52).

■ Setting the favourite channels

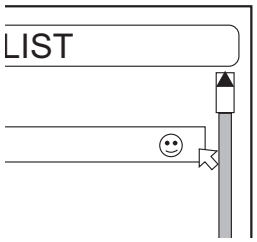
If only channels that you often watch are set as favourite channels, you can choose from just those channels when the **P** ∨/∧ buttons are pressed.

- After setting the favourite channels, check that "Favourite Mode" in "Configuration" (see page 47) is set to ON.

1 Press the ◀/▶ buttons and choose Favourites on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be registered as a favourite channel, and then press the OK button

The favourite icon appears to the right of the chosen channel.



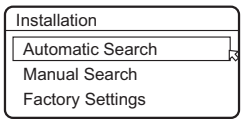
D0219-EN

Installation

Use when re-registering a channel or when registering a new channel.

1 Choose Installation and press the OK button

The Installation menu appears.

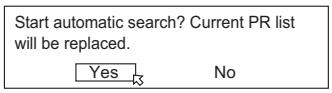


D0220-EN

2 Press the ▼/▲ buttons and choose the channel registration method, and then press the OK button

Automatic Search:
Choose to automatically register the channels that can be received.

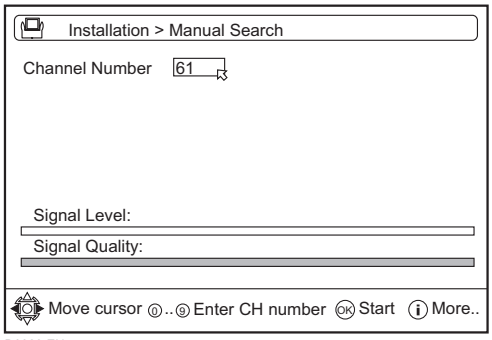
When Automatic Search is chosen and the **OK** button is pressed, the confirmation window appears.



D0221-EN

To perform Automatic Search, choose Yes and press the **OK** button.
To cancel, choose No and press the **OK** button.

Manual Search:
Choose to register a particular channel.

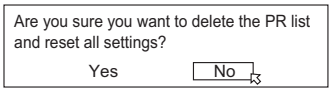


D0222-EN

Press the number buttons and input the channel that you want to register, and then press the **OK** button. The Manual Search starts and the input channel is registered if it can be received.

Factory Settings:
Choose when you have moved house etc and want to automatically re-register all the channels.
In addition to registering all the channels that can be received, it will reset the timer settings.

When Factory Settings is chosen and the **OK** button is pressed, the confirmation window appears.



D0223-EN

To perform Factory Settings, choose Yes and press the **OK** button.
To cancel, choose No and press the **OK** button.

Common Interface

Choose when a pay television reception module is inserted into the Common Interface slot on the back of the TV, and you want to set the module.

When Common Interface is chosen and the **OK** button is pressed, the name of the inserted module appears. When the **OK** button is then pressed, the module setting menu appears.

- When no module is inserted, “No CI Module” appears.
- Refer to the module instruction manual for details of the settings.

Additional preparation

Connecting external equipment

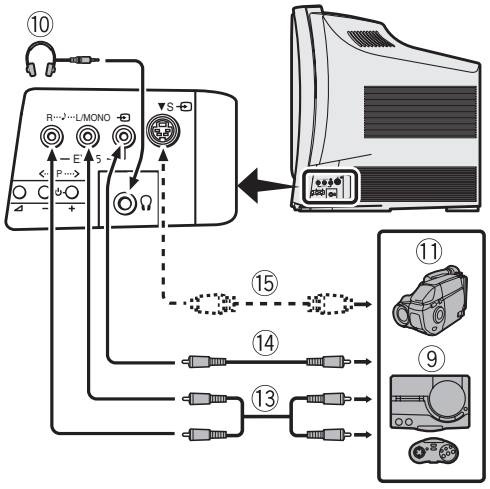
Connect the equipment to the TV, making the correct rear panel and front panel connections.

Before connecting anything:

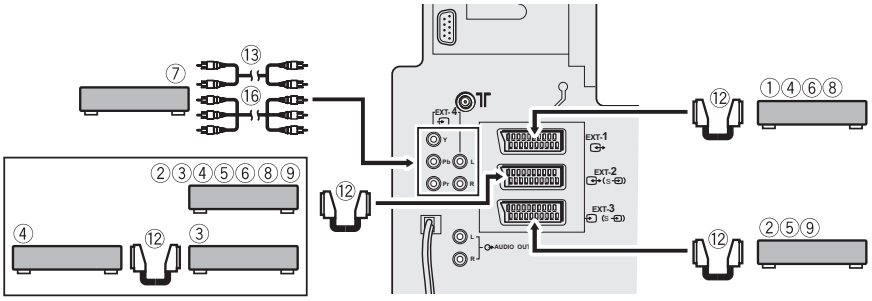
- Read the manuals that came with the equipment.
  Depending on the equipment, the connection method may be different from the diagram. Also, the equipment settings may need to change depending on the connection method.
- Turn off all the equipment including the TV.
- The “Specifications” on the back cover give the details of the EXT terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Connecting cables are not supplied.
- If the VCR’s audio output is in mono, connect the VCR’s AUDIO OUT (audio output) terminal and the TV’s EXT-5 Audio L/MONO terminal with an audio cable.

① VCR (composite signal)
② VCR (composite signal/S-VIDEO signal)
③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
④ Decoder
⑤ DVD player (composite signal/S-VIDEO signal)
⑥ DVD player (composite signal/RGB signal)
⑦ DVD player (component video signals; Pr/Pb/Y)
⑧ TV game (composite signal/RGB signal)
⑨ TV game (composite signal/S-VIDEO signal)
⑩ Headphones
⑪ Camcorder (composite signal/S-VIDEO signal)
⑫ SCART cable
⑬ Audio cable
⑭ Video cable
⑮ S-VIDEO cable
⑯ Component cable

Side of the TV



Back of the TV



■ Equipment which can output the S-VIDEO signal (Y/C signal)

Connect the equipment to an EXT terminal (but not the EXT-1 terminal).

You can choose between an S-VIDEO signal (Y/C signal) and a regular video signal (composite signal). For details of how to operate the equipment, see “S-IN (S-VIDEO input)” on page 42.

■ T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the T-V LINK function may not work properly. After you have stored TV channels in the programme numbers (PR) list, set the DECODER (EXT-2) function for the programme number (PR) to ON to unscramble a scrambled TV channel. For details, see “EXT SETTING” on page 42.

■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone socket at the TV rear panel.

- No sound comes from the TV speakers when the headphones are connected and only one screen is displayed.

■ Video or sound signal output from the EXT-2 terminal

You can change over the output of the video/sound signal from the EXT-2 terminal. This is useful when you want to dub the video/sound from another device onto the VCR connected to the EXT-2 terminal. For details on how to do this, see “DUBBING” on page 43.

■ TV output from the EXT-1 terminal

The video/sound signal of a Analogue terrestrial broadcasting channel you are viewing is always output from the EXT-1 terminal.

- Changing over a programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

■ TV output from the EXT-3 terminal

The video/sound signal of a Digital terrestrial broadcasting (DVB-T) channel you are viewing is always output from the EXT-3 terminal.

- Changing over a programme number (PR) also changes over the TV output from the EXT-3 terminal.
- The video/sound signal from an EXT terminal cannot be output.

■ Connection when recording to VCR

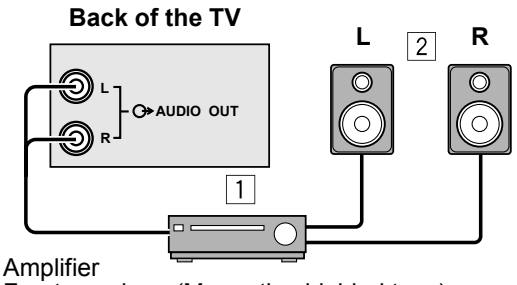
- When recording an Analogue terrestrial broadcasting, connect to either terminal EXT-1 or EXT-2. If you connect to the EXT-2 terminal, make sure the “DUBBING” setting (see page 43) is set to “TV”.
- When recording a Digital terrestrial broadcasting (DVB-T), connect to either terminal EXT-2 or EXT-3. If you connect to the EXT-2 terminal, make sure the “DUBBING” setting (see page 43) is set to “DTV”.
- Choose the EXT-2 terminal to connect to a T-V LINK compatible VCR.
  When recording an Analogue terrestrial broadcasting, set the “DUBBING” setting (see page 43) to “TV”.
  When recording a Digital terrestrial broadcasting (DVB-T), set the “DUBBING” setting (see page 43) to “DTV”.

■ Connecting speakers/amplifier

While referring to the audio equipment connection diagram, connect the audio equipment you want to the TV.
You can use external front speakers to listen to the TV sound instead of the TV speakers.

Before connecting anything:

- Read the manuals provided with the amplifier and speakers.
- Turn the TV and amplifier off.
- To prevent magnetism from the speakers adversely effecting the TV screen, use magnetic-shielded speakers for the front speakers.
- Note that connecting cables are not supplied.



1 Amplifier
2 Front speakers (Magnetic-shielded type)

- The output from the AUDIO OUT terminal is not interrupted by headphone connection to the TV. You cannot cut the sound from the front speaker even if you connect a headphone to the TV.
- Adjust the volume of the external speakers with the amplifier.

Troubleshooting

Digital terrestrial broadcasting (DVB-T) service area
Although this TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting, depending on the area in which you live, you may not be able to receive Digital terrestrial broadcasting (DVB-T).
For details of the Digital terrestrial broadcasting (DVB-T) service area, refer to the FREEVIEW website etc.

If a problem arises while you are using the TV, please read this troubleshooting guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

Important:

- This troubleshooting guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this troubleshooting guide.
- If you follow the advice in this troubleshooting guide without any success, unplug the mains plug and ask for your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

■ If you cannot turn on the TV

- Is the mains plug connected to the mains outlet?
- Is the power lamp lit? If not, press the main power button.
- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

■ If you cannot turn off the TV

- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

■ No picture or no sound

- Have you chosen a TV channel with very poor reception? If so, the BLUE BACK function will be activated: the entire screen becomes blue, and the sound is muted. If you still want to view the TV channel, follow the description “BLUE BACK” on page 35 to change the BLUE BACK function setting to OFF.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL (Analogue)” on page 36 to use the MANUAL function to try to change the SYSTEM setting.

■ Poor picture

- If noise (snow) totally blocks out the picture, there may be a problem with the aerial or aerial cable. Check the following to try to solve the problem:
  –Have the TV and aerial been connected properly?
  –Has the aerial cable been damaged?
  –Is the aerial pointing in the right direction?
  –Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace it with one with better directionality.
- Are your COLOUR SYSTEM settings correct? Follow the description “COLOUR SYSTEM” on page 31 to try to solve the trouble.

- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description “BRIGHT” and “COLOUR” on page 29 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.
- When a white and bright still image (such as a white dress) is displayed on the screen, the white part may look as if it is coloured. This is unavoidable due to the nature of the picture tube itself, and not due to a TV failure. When the picture disappears from the screen, the unnatural colours will also disappear.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with 625p progressive-scanning component signals. If this occurs, change the output setting of the connected device to 625i interlace-scanning component signal output. See the instructions that came with the device for more information.

■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description “BASS” or “TREBLE” on page 33.
- When TV channel reception is poor, it can be hard to hear stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 33 to hear the sound more easily by changing it to a mono sound.

■ If the TV does not respond to the remote control

- Have the batteries of the remote control worn out? Follow the description “Putting the batteries into the remote control” on page 8 and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven metres away from the TV? Use the remote control in front of your TV or from less than seven metres away.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, press the main power button on the TV and turn off the main power. Press the main power button again to turn on the TV. If the TV returns to a normal state, it is not a failure.

■ Other issues

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the ⏻/I (standby) button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- When the TV is receiving a wide-screen signal (WSS) or a signal from an external device affecting the screen size, the ZOOM mode automatically changes. When you want to resume the previous ZOOM mode, press the **ZOOM** button again.
- If you bring magnetised equipment such as a speaker near to your TV, the picture may be warped or unnatural colours may appear at the corners of the screen. In this case, keep the equipment away from your TV. If speakers cause this to happen, use magnetically-shielded speakers instead.
- A picture may be tilted due to the earth’s magnetic field. If so, use the “PICTURE TILT” on page 40 to correct the tilt.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a fault. This is the time needed for the image to stabilize before it can be displayed.

- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.
- Touching the screen may cause you to feel a slight electric shock due to its static electricity. This is unavoidable due to the construction of the picture tube. It is not a problem with the TV. You can rest assured that this static discharge is not harmful.
- When set to 2-pictures multi, adjust the headphone sound with HEADPHONE VOLUME in the SOUND menu.

Specifications

Model	HV-32D40BK	HV-28D40BK
Broadcasting systems	CCIR I	
Colour systems	PAL • The EXT terminals also support the NTSC 3.58/4.43 MHz system.	
Channels and frequencies	Analogue: E21-E69, Digital (DVB-T): 474 MHz - 850 MHz (channel 21 - 68)	
Sound-multiplex systems	NICAM (I) system	
Teletext systems	Analogue: NICAM (I) system, Digital (DVB-T): MHEG 5 UK profile	
Power requirements	220 - 240 V AC, 50 Hz	
Power consumption	158 W (Standby: 2.0 W)	148 W (Standby: 2.0 W)
Picture tube size	Viewable area 76 cm (measured diagonally)	Viewable area 66 cm (measured diagonally)
Audio output	Rated Power output: 10 W + 10 W	
Speakers	(13 cm × 6.5 cm) oval × 2	
EXT-1 terminal	Euroconnector (21-pin, SCART) • Video input, Audio L/R inputs and RGB inputs are available. • Analogue TV broadcast outputs (Video and Audio L/R) are available.	
EXT-2 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available (EXT-1, EXT-3, EXT-5, TV, DTV). (The DTV signal is converted to analogue and then outputted.) • T-V LINK functions are available.	
EXT-3 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available. • DTV broadcast outputs (Video and Audio L/R) are available. (The DTV signal is converted to analogue and then outputted.)	
EXT-4 terminal	RCA connectors × 5 • Component video (Y, Pb, Pr) inputs (625p, 525p, 625i, 525i, 1125i) and Audio L/R inputs are available.	
EXT-5 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/MONO and R inputs are available.	
CI slot	DVB Common Interface is available.	
AUDIO OUT terminal	RCA connectors × 2 • Audio L/R outputs are available. • Output level 0.5 Vrms.	
Headphone jack	Stereo mini-jack (3.5 mm in diameter)	
Dimensions (W × H × D)	864 mm × 587 mm × 550 mm	762 mm × 528 mm × 493 mm
Weight	55.0 kg	40.0 kg
Accessories	Remote control unit × 1 (RM-C1805) AA/R6 dry cell battery × 2	

We may change the design and specifications without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this would be an infringement of copyright.

JVC

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